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Dispersion and Foraging of Hawaiian Monk Seals (*Monachus schauinslandi*) near Lisianski and Midway Islands: 2000-2001

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DISPERSION AND FORAGING RANGES OF HAWAIIAN MONK SEALS

(*Monachus schauinslandi*) NEAR LISIANSKI AND MIDWAY ISLANDS:

2000-2001

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ABSTRACT

We studied the movements of 26 Hawaiian monk seals (8 weaned pups [4 male, 4 female], 9 juveniles [7 male, 2 female], 9 adults [4 male, 5 female]) near Lisianski Island and 16 seals (4 weaned pups [2 male, 2 female], 8 juveniles [5 male, 3 female], 4 adults [2 male, 2 female]) near the Midway Islands between October 2000 and September 2001 using satellite-linked radio telemetry, for between 2 and 261 days. Seals ranged over relatively great distances while foraging from autumn through summer. Weaned pups and juveniles from Lisianski Island ranged over much larger distances to forage (up to 400 km) than seals from the Midway Islands (generally < 100km). Adults from both colonies traveled from 100 to 300 km to forage, and those from the Midway Islands dispersed more and traveled greater distances than those from Lisianski. When moving away from each colony, seals generally traveled southwest to forage; exceptions were some adults and juveniles that also ranged northwest to Kure Atoll from the Midway Islands. No seals from the Midway Islands reached Lisianski Island and none from Lisianski moved towards the Midway Islands. In addition to habitats very near atolls and islands, key foraging areas were also at seamounts along the Northwestern Hawaiian Islands ridge. Seals appeared to move quickly along corridors between these submarine features and evidently did not spend much time foraging during transit.



Lisianski Island



Midway Atoll

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1. Introduction

The Hawaiian monk seal (*Monachus schauinslandi*) is endemic to the Hawaiian Island Archipelago with six principal colonies in the Northwestern Hawaiian Islands (NWHI) and reefs of the archipelago (Fig. 1). The species was designated as *Endangered* in 1976 under the Endangered Species Act of 1973 (ESA) following declines of 50% from the late 1950s. Overall, numbers have declined about 11% annually since 1989, owing to low birth rates and poor survival of neonates and juveniles from a variety of known and unknown causes (e.g., Gilmartin and Eberhardt, 1995; Antonelis and Ragen, 1997; Craig and Ragen 1999).

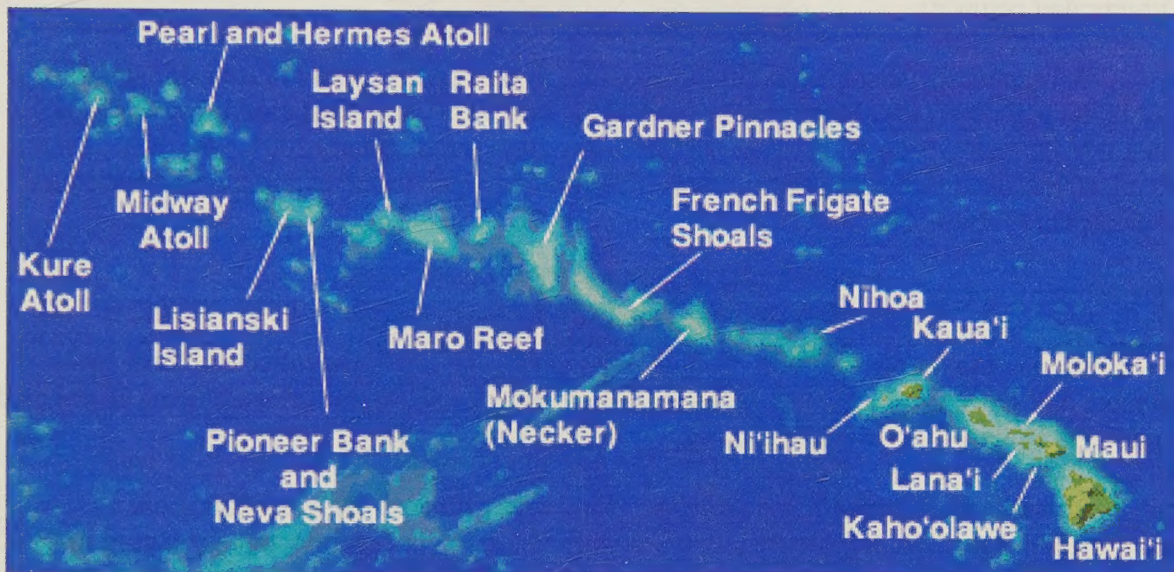


Figure 1. The Main (MHI) and Northwestern (NWHI) Hawaiian Islands.

At present the species numbers 1,300 to 1,400. Monk seals are known to interact directly with the U.S. pelagic longline fishery, the bottomfish fishery, and the lobster fishery in and near the Northwestern Hawaiian Islands (e.g., Nitta and Henderson, 1993; Kobayashi and Kawamoto, 1995; Lowe, 1998). Indirect interaction (e.g., competition for prey, disruption of community structure) may also impede recovery of Hawaiian monk seals. Management regulations have been implemented to minimize fishery interactions. In 1988, *Critical Habitat* for monk seals in the NWHI was designated as the emergent land, lagoon waters, and ocean waters out to the 20 fathom isobath. In 1991, a *Protected Species Zone* was established out to 50 nautical miles from the islands and the corridors between islands to protect seals from interactions with the pelagic longline fishery. The boundaries of these areas were established with limited information on the foraging habitats and ranges of monk seals. Additional studies have, however, now been conducted at all of the colonies in the NWHI to document the use of marine habitats by Hawaiian monk seals (Siniff and Abernathy, 1998; Stewart, 1998, 1999; Stewart and Yochem, 2002a,

2002b). Here we describe the dispersion and foraging habitats of monk seals near colonies at Lisianski Island and the Midway Islands in 2000 and 2001.

2. Methods

The field team at Lisianski Island was B. S. Stewart (P.I.), P. K. Yochem (veterinarian), J. Baker (Field Team Leader), L. Kashinsky (veterinary technician), and D. Dick (field assistant). The field team at Midway Islands was B. S. Stewart (P.I.), P. K. Yochem (veterinarian), B. Ryon (Field Team Leader), M. Urby, and B. Casler.

Capture and restraint

We captured, using a hoop-net (Fig. 2), 28 Hawaiian monk seals at Lisianski Island (26°02' N, 170°00'W; Fig. 3) between 13 and 23 October 2000, and 16 at the Midway Islands (28°15' N, 177°20'W; Fig. 4) between 31 December 2000 and 6 January 2001. We then chemically sedated each seal with an intravenous (via the inter-costal, extradural vein) injection of diazepam (Tables 1, 2, 3, 4).

Biomedical sampling

Within 2 to 4 minutes of intravenous injection of diazepam, we collected blood, tissue (blubber and skin), fecal and microbiological swab samples. We made measurements of standard length and axillary girth to within 0.5 cm.

Biomedical samples (hematologic, serum/plasma biochemical, microbiological, toxicological, parasitological) were processed within 2 to 5 hours of collection according to protocols established by Aguirre et al. (1999), Aguirre (2000), and the 2000 *Field Manual for Research on the Hawaiian Monk Seal*.¹

Tracking instrument deployment

Once seals were sedated and samples collected, we glued a satellite linked data recorder/transmitter (SLDR) to the dorsal pelage of each of 26 seals (8 weaned pups [4 male, 4 female]; 9 juveniles [7 male, 2 female]; 9 adults [4 male, 5 female]) at Lisianski Island (Table 5) and 16 seals (4 weaned pups [2 male, 2 female]; 8 juveniles [5 male, 3 female]; 4 adults [2 male, 2 female]) at the Midway Islands (Table 6) using a quick setting epoxy.

¹Anonymous. 2000. 2000 Field manual for Research on the Hawaiian Monk Seal. Unpublished document, NOAA, SWFSC.



Figure 2. Hoop net used to capture Hawaiian monk seals (Photo by B. S. Stewart).

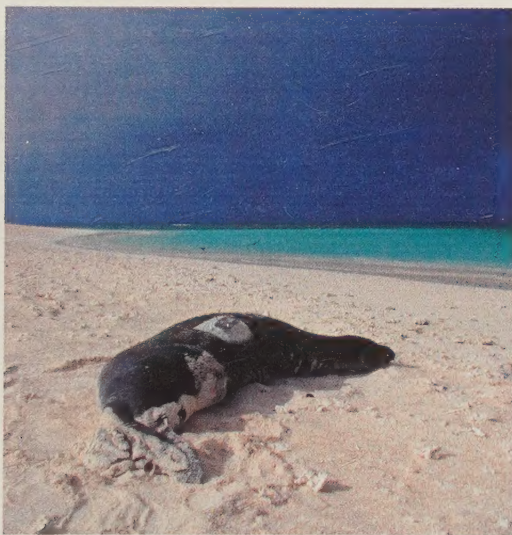


Figure 3. Satellite-linked radio transmitter glued to dorsal pelage of adult Hawaiian monk seal (Photo by B. S. Stewart).

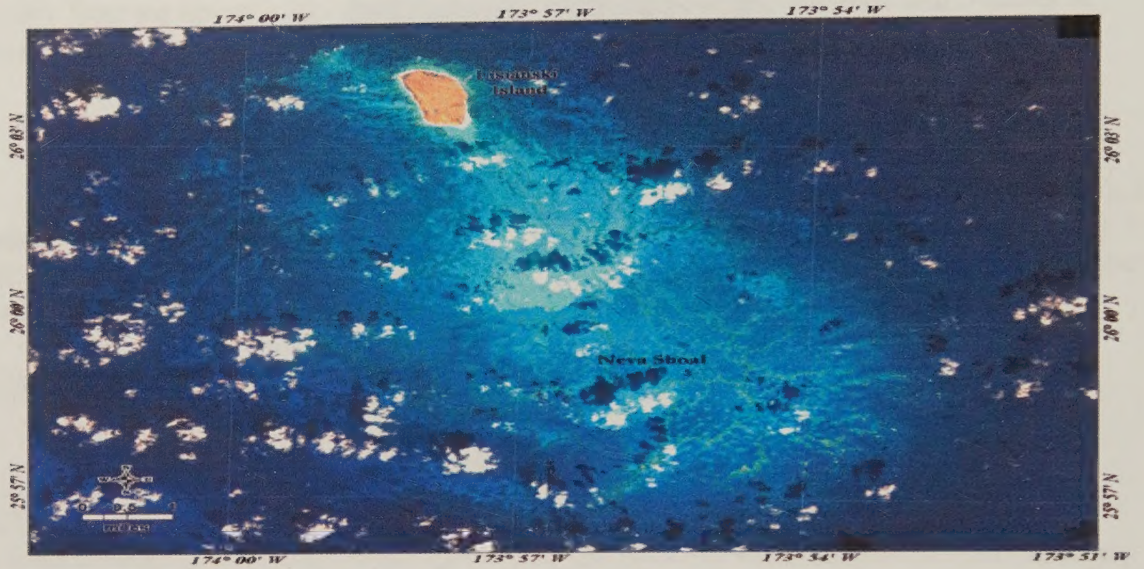


Figure 4. Lisianski Island and surrounding shoals.



Figure 5. Midway Islands and Midway Atoll.

Locations of the seals were determined several times each day by the Argos earth-orbiting satellite system and the Argos DCLS, described in detail elsewhere (e.g., Fancy et al., 1988; Harris et al., 1990; Stewart et al., 1989; Stewart, 1997).

To lengthen the tracking period by conserving battery power, we programmed the transmitters to be active only during periods of the day when good satellite coverage was expected (Appendix I). The SLDRs were also programmed to shift from a transmission rate of around 1/40 s to around 1/90 s once a seal was hauled out constantly for 6 to 10 minutes. Moreover, if the seal remained hauled out for about 70 minutes, transmissions then ceased until it reentered the sea for more than 1.5 minutes. Whenever at sea, transmissions were suppressed when the SLDR was below the sea surface owing to an electrical conductivity circuit that is closed by continuous saltwater contact between two or three electrodes mounted on the surface of the SLDR.

3. Results

Data on movements of seals were collected, through the Argos Data Collection and Location Service (DCLS), until the instruments failed, their batteries expired, or they were shed when seals molted in spring and summer 2001.

Overall, we tracked seals at Lisianski Island for 2 to 267 days (weaned pups: 2-158 days; juveniles: 16-168 days; adult males: 19-267 days; adult females: 36-240 days; Table 7) and at the Midway Islands for 27 to 242 days (weaned pups: 27-89 days; juveniles: 105-202 days; adults: 126-261 days; Table 8).

3.1. Geographical dispersion of foraging monk seals near Lisianski Island

3.1.a. Lisianski Island

Seals ranged from Lisianski southeast as far as Maro Reef (ca 400km; Fig.6) while foraging. They evidently focused foraging efforts at most areas where bathymetric features were near the sea surface (e.g., seamounts and Laysan Island). Weaned pups foraged relatively near Lisianski Island, though one travelled east to nearby Pioneer Bank (ca 50 km), and they evidently segregated from each other when foraging (Fig. 7). Juvenile monk seals also segregated from each other while foraging (Fig. 8). Two juvenile females (G5AM=24104, GD37=24107) migrated as far as Maro Reef (G5AM); both also foraged at the Southampton Seamounts and near Laysan Island, though in different locations (Fig. 8).

Most adults foraged near Lisianski Island, though at separate locations (Fig. 9). One adult female that was born at Laysan Island (TC74=5422) left Lisianski soon after she was outfitted with an SLDR and returned to Laysan island, stopping at Pioneer Bank and at the Southampton Seamounts to forage enroute.

3.1.b. Midway Islands

Seals instrumented at the Midway Islands traveled as far west as Kure Atoll (ca 100 km) and as far east as Pearl and Hermes Reef (ca 180 km) to forage. Pups generally foraged within 20 km of Sand Island, though they did occasionally travel up to 40 km away (Fig. 7). Juveniles mostly foraged within 50 km of the Midway Islands, though some foraged as far west as Kure Atoll and as far east as Pearl and Hermes Reef (Fig. 8). Adult seals ranged substantially farther to forage than pups and juveniles; they foraged extensively around Ladd Sea Mount (ca 80 km away), Nero Seamount, Kure Atoll and as far east as Pearl and Hermes Reef (Fig. 9).

4. Summary

Hawaiian monk seals from Lisianski and the Midway Islands ranged over relatively great distances while foraging from autumn through summer. Weaned pups and juveniles from Lisianski Island ranged over much larger distances to forage (up to 400 km) than seals from the Midway Islands (generally < 100km). Adults from both colonies traveled from 100 to 300 km to forage and those from the Midway Islands dispersed more and traveled greater distances than those from Lisianski. When moving away from each colony, seals generally traveled southwest to forage; exceptions were some adults and juveniles that also ranged northwest to Kure Atoll from the Midway Islands. No seals from the Midway Islands reached Lisianski Island and none from Lisianski moved towards the Midway Islands. In addition to habitats very near atolls and islands, key foraging areas were also at seamounts along the northwestern Hawaiian island ridge. Seals appeared to move quickly along corridors between these submarine features and evidently did not spend much time foraging while in transit.

5. Acknowledgments

These studies were collaborative efforts between the National Marine Fisheries Service, Honolulu Laboratory, and Hubbs-Sea World Research Institute. G. Antonelis and B. Ryon of NMFS/SWFSC were the Field Team Leaders for these collaborative efforts. We thank L. Kashinsky, M. Urby (SeaWorld Texas), B. Casler (USFWS), and D. Dick (NMFS/SWFSC) for preparatory and field assistance; B. Ryon, C. Yoshinaga, J. Henderson, and G. Antonelis for logistic and preparatory support; Midway Phoenix Corporation for assistance at Midway Island and for transport to and from Lisianski Island aboard the *SS Midway*; R. Anglin, D. Johnson, N. Hoffman, and other staff of the USFWS for their logistic support at Midway Island; and the command and crew of the NOAA Vessel *Townsend Cromwell* for additional logistic support. The contract to Hubbs-SeaWorld Research Institute was administered by Dr. G. Antonelis at the NMFS Honolulu Laboratory. The research was authorized under the Marine Mammal Protection Act (16 U.S.C. 1361 *et seq.*), Scientific Research Permit No. 848-1335.

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Table 1. Chemical immobilization and instrumentation of Hawaiian monk seals at Lisianski Island, October 2000.

Date	Tag No.	PTT No.	Sex	Age Class	Age (years)	Length (cm)	Girth (cm)	Diazepam (mg IV)	Atropine (mg IM)	Lidocaine Used?	Capture Time (local)	Release Time (local)	Into Water (local)
13-Oct-00	GN17	None	M	Adult	11			31	3.24	No	1807	1830	Unk
14-Oct-00	GZ10	24099	M	Adult	9	178	109	32	3.24	Yes	1040	1122	1143
14-Oct-00	GL22	5411	M	Adult	14	202.5	114	32	3.24	Yes	1211	1252	1320
14-Oct-00	GQ38	24098	M	Juvenile	3	189	95	15	1.62	No	1733	1806	1816
15-Oct-00	TC74	5422	F	Adult	5	193	117	25	2.7	No	0752	0828	0845
15-Oct-00	GH00	24108	M	W. Pup	<1	115.5	67.5	8	1.08	No	0904	0934	0945
15-Oct-00	G208	5416	M	Adult	≥14	194	120.5	34	2.7	No	1008	1038	1106
15-Oct-00	GH26	24109	F	W. Pup	<1	142	89	8	1.08	No	1740	1807	1822
15-Oct-00	G3AO	24103	F	Adult	6	167.5	98.5	20	2.16	Yes	1844	1908	1926
16-Oct-00	G178	24101	F	Adult	≥16	210.5	124	25	2.7	Yes	0952	1025	1030
16-Oct-00	GH06	24110	F	W. Pup	<1	137	81	7	0.54	No	1119	1155	1156
16-Oct-00	GD42	22813	M	Juvenile	1	147	94	9	0.54	Yes	1201	1222	1228
16-Oct-00	GD26	24112	M	Juvenile	1	137	81.5	9	0.54	No	1802	1831	1843
17-Oct-00	G066	24105	F	Adult	17	197	125	20	3.24	Yes	0852	0924	0952
17-Oct-00	GL34	5412	M	Adult	14			34	3.24	No	1008	1036	1041
17-Oct-00	TY12	24115	M	Juvenile	2	164	89.5	12	2.16	No	1116	1139	1143
17-Oct-00	GD37	24107	F	Juvenile	1	137	75	9	1.08	No	1728	1747	1817
18-Oct-00	GY08	5421	M	Juvenile	2	148	87	12	1.08	No	0944	1014	1020
18-Oct-00	GD62	None	M	Juvenile	1	133.5	71	8	1.08	No	1638	1653	1655
18-Oct-00	GD32	24111	M	Juvenile	1	147	88.5	12	1.62	Yes	1727	1759	1806
19-Oct-00	GD24	24106	M	Juvenile	1	148.5	85	9	1.08	No	0840	0912	0917
19-Oct-00	G5AM	24104	F	Juvenile	2	159	94	15	1.62	Yes	1055	1128	1132
19-Oct-00	GH18	25780	F	W. Pup	<1	134	81.5	8	1.08	No	1701	1733	1746
20-Oct-00	GH30	25781	M	W. Pup	<1	125	75	8	1.08	No	1041	1111	1112
20-Oct-00	GH04	24113	M	W. Pup	<1	121.5	71	7	1.08	No	1143	1213	1214
20-Oct-00	GH11	24114	M	W. Pup	<1	127	73.5	8	1.08	No	1741	1819	1822
21-Oct-00	GH22	22812	F	W. Pup	<1	127	69	7	1.08	Yes	1753	1823	1836
22-Oct-00	GF02	5414	F	Adult	12	209	128	22	2.7	Yes	0859	0933	0935

Table 2. Characteristics of sedation of Hawaiian monk seals at Lisianski Island, October 2000.

Tag No.	Level of sedation
	Molt complete, but hair loose on dorsum (no xmtr attached), no sedation
GN17	Level 3 sedation -- excellent
GZ10	Level 2 sedation
GL22	Level 2 sedation
GQ38	Level 2 sedation
TC74	Level 3 > 4 sedation; reversed with 2.5 ml flumazenil (IV)
GH00	Level 2 sedation -- excellent
G208	Level 3 sedation
GH26	Level 2 sedation -- excellent
G3AO	Level 2 sedation -- fair; worn teeth
G178	Level 3 sedation -- excellent
GH06	Level 2 sedation -- fair
GD42	Level 2 sedation -- excellent
GD26	Level 2 sedation; worn teeth; excessive vulvovaginal folding (healthy-appearing mucosa, no prolapse)
G066	Level 1 sedation -- never really went down (no biopsy, no L/G)
GL34	Level 2 sedation -- excellent
TY12	Level 3 sedation -- excellent; excessive loose skin at axillae
GD37	Level 2 sedation -- excellent
GY08	Greenish pelage; pre-molt; no xmtr; given 2.5 ml flumazenil IV and 8 mg dexmethasone NaP IM
GD62	Level 2 sedation
GD32	Level 2 sedation -- excellent
GD24	Level 2 sedation -- excellent
G5AM	Level 3 sedation
GH18	Level 2 sedation -- excellent
GH30	Level 2 sedation
GH04	Level 3 sedation, still ataxic 30 min post-induction, reversed with 2.5 ml flumazenil IV
GH11	Level 2 sedation; sclera/conjunctiva mildly hyperemic
GH22	Level 2 sedation; fleshy protruberance btwn vulva and anus (healthy-appearing mucosa, not a prolapse)

Table 3. Chemical immobilization of Hawaiian monk seals at Midway Islands, December 2000 - January 2001.

Date	Tag No.	PTT No.	Sex	Age Class	Age (years)	Length (cm)	Girth (cm)	Diazepam (mg IV)	Atropine (mg IM)	Lidocaine Used?	Capture Time (local)	Release Time (local)	Into Water (local)
31-Dec-00	RY14	24196	M	Juvenile	2.7	159	93	13	1.62	Yes	15:41	16:32	16:33
31-Dec-00	RD24	24195	F	Juvenile	1.5	168	96.5	14	2.16	No	16:50	17:23	17:24
31-Dec-00	RQ15	24102	F	Juvenile	3.4	191.5	107	22	2.7	No	17:50	18:25	18:27
1-Jan-01	RQ02	24100	M	Juvenile	3.5	186	106	22	2.16	No	9:02	9:41	9:47
1-Jan-01	BN44	5424	M	Adult	14	199	128	32	2.7	Yes	10:17	10:56	11:00
1-Jan-01	RY18	24197	M	Juvenile	2.75	174.5	100	14	1.62	Yes	11:30	11:55	?
1-Jan-01	RH10	24198	M	Weaned Pup	0.75	134	74	7	1.08	No	15:50	16:23	?
2-Jan-01	RY00	5423	F	Juvenile	2.75	166	100	13	1.62	No	13:50	14:20	?
2-Jan-01	RH26	13044	M	Weaned Pup	0.75	140	83	14	1.08	Yes	15:21	15:48	15:49
2-Jan-01	RD20	13045	M	Juvenile	1.75	158.5	95	13	1.62	Yes	16:45	17:15	17:19
3-Jan-01	BK27	13030	F	Adult	16	228	129	25	2.7	Yes	9:14	9:41	9:48
3-Jan-01	R101	13035	F	Adult	≥10	216	133	25	2.7	Yes	10:03	10:36	?
3-Jan-01	B443	13036	M	Adult	≥9	200.5	134	32	2.7	No	11:11	11:44	?
3-Jan-01	RH16	13047	F	Weaned Pup	0.5	127	72.5	8	1.08	Yes	15:55	16:24	16:37
4-Jan-01	RH04	13046	F	Weaned Pup	0.75	141	82	8	1.08	Yes	8:54	9:20	9:24
5-Jan-01	RY04	13032	M	Juvenile	3	173.5	99	14	2.7	Yes	7:51	8:21	8:23

Table 4. Chemical immobilization of Hawaiian monk seals at Midway Islands, December 2000 - January 2001.

Tag No.	Comments
RY14	Level 2 sedation
RD24	Level 2 sedation - exc.
RQ15	Level 3 sedation - exc.; diff. to restrain initially, blubber v. sticky, blood sl. dark, seal looks long and lean
RQ02	Level 3 sedation - exc; v. diff. to restrain initially, anorectal tears (healed)
BN44	Level 2 sedation - exc.; fresh wound L side of tail
RY18	Level 2 sedation; breath smelled "fishy" (per Brad Ryon)
RH10	Level 3 sedation; patches of greenish pelage present
RY00	Level 2 sedation - exc.; v. diff. to restrain initially; 1 fresh puncture wound (bleeding) RFF; green pelage on muzzle
RH26	Level 2 sedation; healed bite wound RFF (#1 digit sl. swollen, joints OK, no fracture apparent)
RD20	Level 2 sedation
BK27	Level 2 sedation - exc.
R101	Level 2 sedation - exc.; green pelage on muzzle, very worn teeth
B443	Level 3 sedation - exc.; healed round scars dorsal midline and base of tail, expiratory stridor (upper airway)
RH16	Level 3 sedation; survival factor wounds healed, firm nodule just left of dorsal midline aspirated (slide for cytology)
RH04	Level 2 sedation - exc.; green pelage on venter and rear flippers
RY04	Level 2 sedation; 2 large healed scars just behind right foreflipper

Table 5. Instrumentation of Hawaiian monk seals with satellite-linked data recorders (SLDRs) at Lisianski Island, October 2000.

PTT ID	SEAL ID	LTAG NO	RTAG NO	GMT DATE DEPLOYED	GMT TIME DEPLOYED	LOCAL DATE DEPLOYED	LOCAL TIME DEPLOYED	SECTOR	WC #	LENGTH (CM)	GIRTH (CM)	TRANS CAPACITY	AGE	SEX	BIRTH DATE
5411	GL22	L78	L77, L49	14 OCT 2000	2253	14 OCT 2000	1253	3	OOT0941	202.5	114	60k	14	M	1986
5412	GL34	L48	L47	17 OCT 2000	1959	17 OCT 2000	0959	16	OOT0942	---	---	60k	14	M	1986
5414	GF02	F72, F64	F73, F65	22 OCT 2000	1938	22 OCT 2000	0938	5	OOT0943	209	128	60k	12	F	1988
5416	G208	4AA	4AB	15 OCT 2000	2106	15 OCT 2000	1106	3	OOT0944	194	120.5	60k	>14	M	<1986
5421	GY08	Y08	Y09	18 OCT 2000	2008	18 OCT 2000	1008	8	OOT0945	148	87	60k	2	M	21 MARCH 1998
5422	TC74	C74	C75	15 OCT 2000	1829	15 OCT 2000	1129	2	OOT0946	193	117	60k	5	F	1995
22812	GH22	H22	H23	22 OCT 2000	0415	21 OCT 2000	1815	14	OOT0967	127	69	20k	.5	F	2 MAY 2000
22813	GD42	D42	D43	16 OCT 2000	2203	16 OCT 2000	1203	10	OOT0968	147	94	20k	1	M	1 MAY 2000
24098	GQ38	Q38	Q39	15 OCT 2000	0357	14 OCT 2000	1757	20	OOT0949	169	95	60k	3	M	19 MAY 1997
24099	GZ10	Z50, Z54	Z11	14 OCT 2000	2115	14 OCT 2000	1115	3	OOT0950	178	109	60k	9	M	1991
24101	G178	4AE	4AF	16 OCT 2000	1945	16 OCT 2000	1145	8	OOT0952	210.5	124	60k	>16	F	<1984
24103	G3AO	4AC	4AD	16 OCT 2000	0440	15 OCT 2000	1840	17	OOT0954	187.5	98.5	60k	6	F	1994
24104	G5AM	5AN	5AM	19 OCT 2000	2050	19 OCT 2000	1050	13	OOT0955	159	94	60k	2	F	1998
24105	G066	A96	A97	17 OCT 2000	1845	17 OCT 2000	0845	17	OOT0956	197	125	60k	17	F	1983
24106	GD24	D24	D25	19 OCT 2000	1830	19 OCT 2000	0830	7	OOT0957	148.5	85	20k	1	M	13 APRIL 1999
24107	GD37	D37	D36	18 OCT 2000	0322	17 OCT 2000	1722	16	OOT0958	137	75	20k	1	F	23 APRIL 1999
24108	GH00	H90	H01	15 OCT 2000	1937	15 OCT 2000	1137	3	OOT0959	115.5	67.5	20k	.5	M	25 MARCH 2000
24109	GH26	H26	H27	16 OCT 2000	0340	15 OCT 2000	1740	17	OOT0960	142	89	20k	.5	F	11 MAY 2000
24110	GH08	H08	H07	16 OCT 2000	2110	16 OCT 2000	1110	10	OOT0961	137	81	20k	.5	F	25 MARCH 2000
24111	GD32	D32	D53	19 OCT 2000	0351	18 OCT 2000	1751	12	OOT0962	147	80.5	20k	1	M	21 APRIL 1999
24112	GD26	D26	D27	17 OCT 2000	0420	16 OCT 2000	1820	20	OOT0963	137	81.5	20k	1	M	22 APRIL 1999
24113	GH04	H04	H37	20 OCT 2000	2134	20 OCT 2000	1134	13	OOT0964	121.5	71	20k	.5	M	25 MARCH 2000
24114	GH11	H11	H99	21 OCT 2000	0338	20 OCT 2000	1738	1	OOT0965	127	73.5	20k	.5	M	9 APRIL 2000
24115	TY12	Y12	Y13	17 OCT 2000	2107	17 OCT 2000	1107	16	OOT0966	164	89.5	20k	2	M	1998
25780	GH18	H18	H19	20 OCT 2000	0254	19 OCT 2000	1654	14	OOT0969	134	81.5	20k	.5	F	17 APRIL 2000
25781	GH30	H30	H31	20 OCT 2000	2036	20 OCT 2000	1036	11	OOT0970	125	75	20k	.5	M	27 MAY 2000

Table 6. Instrumentation of Hawaiian monk seals with satellite-linked data recorders (SLDRs) at Midway Islands, December 2000 - January 2001.

PTT ID	SEAL ID	LTAG NO	RTAG NO	GMT DATE DEPLOYED	GMT TIME DEPLOYED	LOCAL DATE DEPLOYED	LOCAL TIME DEPLOYED	SECTOR	WC SLDR #	TRANS CAPACITY	LENGT H (CM)	GIRTH (CM)	AGE YEARS	SEX	BIRTH DATE
5423	RY00 Y26		Y01	3 JAN 01	0123	2 JAN 01	1223	SAND 5	00T0947	60K	166	100	2.9	F	16 MAR 98
5424	BN44 N30, 3AK		3AL	2 JAN 01	2200	1 JAN 01	1100	SAND 2	00T0948	60K	199	128	14	M	UNKNOWN
13030	BK27 3AS		2AJ K27	3 JAN 01	2046	3 JAN 01	0946	EAST 2	00T0984	60K	228	129	16	F	UNKNOWN
13032	RY04 Y04		Y22	5 JAN 01	1915	5 JAN 01	0815	SAND 5	00T0986	60K	173.5	99	2.9	M	31 JAN 98
13035	R101 3AN		3A0	3 JAN 01	2140	3 JAN 01	1040	EAST 2	00T0989	60K	216	133	≥10	F	UNKNOWN1
13036	B443 2AK		2AL	3 JAN 01	2246	3 JAN 01	1146	EAST 3	00T1000	60K	200.5	134	≥9	M	UNKNOWN
13044	RH26 H26		H27	3 JAN 01	0250	2 JAN 01	1350	SAND 19	00T0998	20K	140	83	0.9	M	27 MAR 00
13045	RD20 D20		D21	3 JAN 01	0420	2 JAN 01	1520	SAND 19	00T0999	20K	158.5	95	1.7	M	14 APR 99
13046	RH04 H04		H05	4 JAN 01	2021	4 JAN 01	0921	SAND 5	00T0990	20K	141	82	0.75	F	28 FEB 00
13047	RH16 H16		H17	4 JAN 01	0320	3 JAN 01	1620	SAND 29	00T1001	20K	117	72.5	0.6	F	13 MAY 00
24100	RQ02 Q18		Q03	1 JAN 01	2045	1 JAN 01	0845	SAND 12	00T0951	60K	186	106	3.4	M	UNKNOWN
24102	RQ15 Q15		Q14	1 JAN 01	0527	31 DEC 00	0945	SAND 15	00T0953	60K	191.5	107	3.5	F	18 JUL 97
24195	RD24 D24		D25	1 JAN 01	0423	31 DEC 00	1723	SAND 12	00T1014	20K	168	96.5	1.5	F	UNKNOWN
24196	RY14 Y15		Y14	1 JAN 01	0245	31 DEC 00	1545	SAND 12	00T1015	20K	159	93	2.7	M	10 MAR 98
24197	RY18 Y18		Y19	1 JAN 01	2256	1 JAN 01	1156	SAND 9	00T1016	20K	174.5	100	2.6	M	20 MAY 98
24198	RH10 H10		H11	2 JAN 01	0317	1 JAN 01	1417	SAND 19	00T1017	20K	134	74	0.7	M	7 APR 00

Table 7. Duration of tracking of Hawaiian monk seals tagged in October 2000 at Lisianski Island.

PTT #	ID	Sex	Age (years)	Days Tracked
24099	G210	Male	9	170
5411	GL22	Male	14	267
5412	GL34	Male	14	19
5416	G208	Male	>14	200
5422	TC74	Female	5	151
24103	G3AO	Female	6	92
5414	GF02	Female	12	240
24101	G178	Female	>16	36
24105	G066	Female	17	138
24108	GH00	Male	Weaned pup	53
24113	GH04	Male	Weaned pup	46
24114	GH11	Male	Weaned pup	2
25781	GH30	Male	Weaned pup	106
22812	GH22	Female	Weaned pup	50
24109	GH26	Female	Weaned pup	73
24110	GH06	Female	Weaned pup	158
25780	GH18	Female	Weaned pup	126
22813	GD42	Male	1	73
24106	GD24	Male	1	16
24111	GD32	Male	1	115
24112	GD26	Male	1	70
24107	GD37	Female	1	156
5421	GY08	Male	2	168
24115	TY12	Male	2	160
24104	G5AM	Female	2	129
24098	GQ38	Male	3	18

Table 8. Duration of tracking of Hawaiian monk seals tagged in December 2000 and January 2001 at the Midway Islands.

PTT #	ID	Sex	Age (years)	Days Tracked
5423	RY00	FEMALE	2.9	202
5424	BN44	MALE	14	242
13030	BK27	FEMALE	16	181
13032	RY04	MALE	2.9	155
13035	R101	FEMALE	≥10	126
13036	B443	MALE	≥9	261
13044	RH26	MALE	0.9	27
13045	RD20	MALE	1.7	123
13046	RH04	FEMALE	0.75	89
13047	RH16	FEMALE	0.6	60
24100	RQ02	MALE	3.4	155
24102	RQ15	FEMALE	3.5	105
24195	RD24	FEMALE	1.5	111
24196	RY14	MALE	2.7	136
24197	RY18	MALE	2.6	114
24198	RH10	MALE	0.7	72

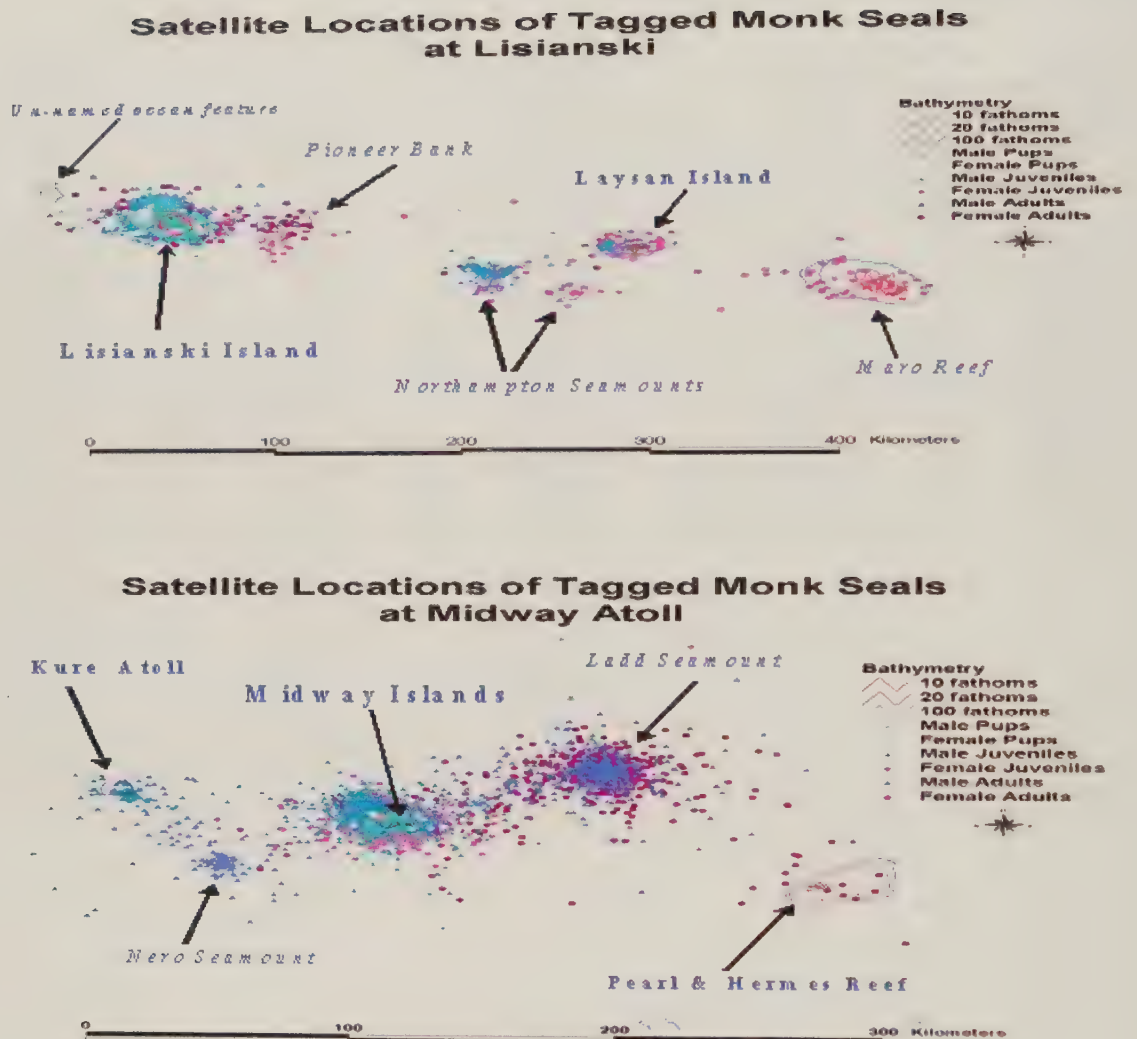
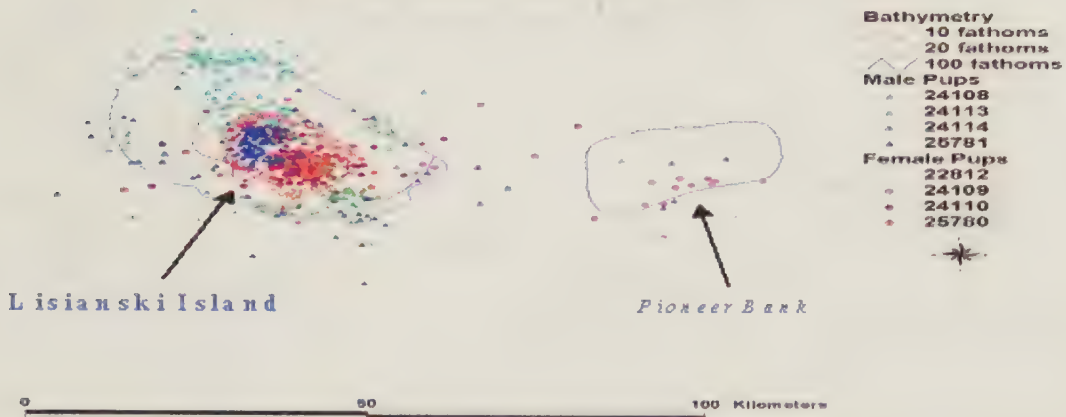


Figure 6. Foraging ranges of Hawaiian monk seals from Lisianski (upper) and Midway (lower) islands in 2000 and 2001.

Satellite Locations of Individual Monk Seal Pups at Lisianski



Satellite Locations of Individual Monk Seal Pups at Midway



Figure 7. Foraging ranges of Hawaiian monk seal pups from Lisianski (upper) and Midway (lower) islands in 2000 and 2001.

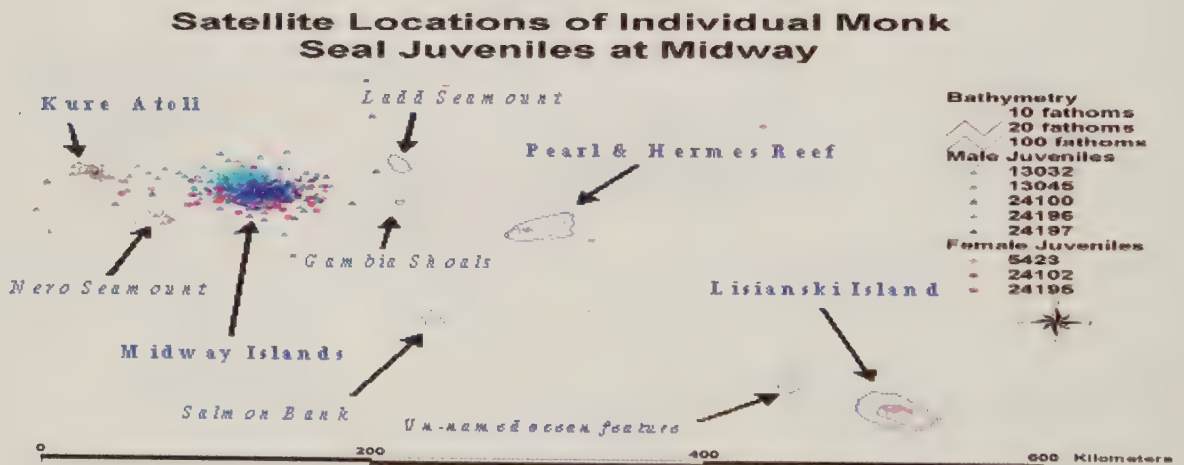
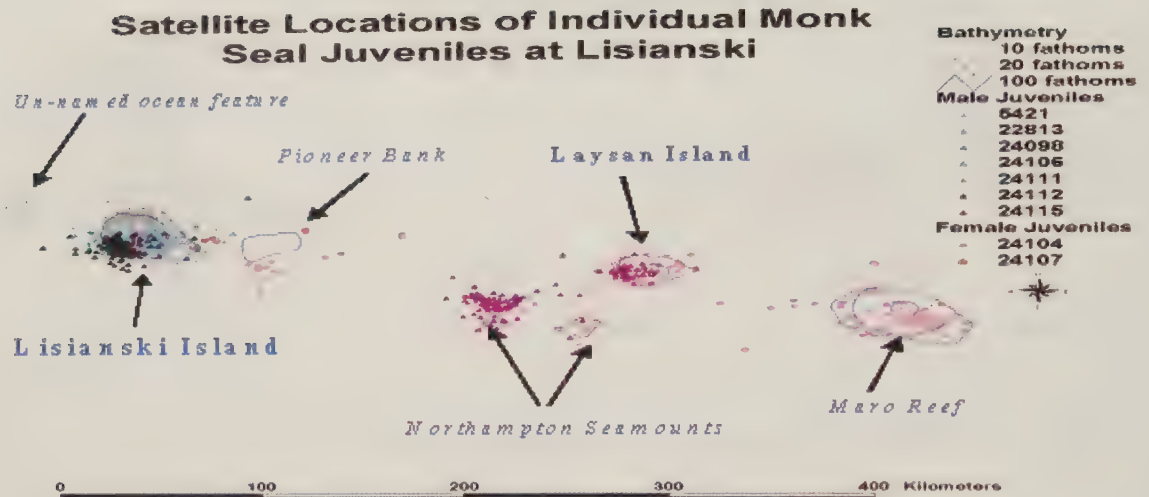


Figure 8. Foraging ranges of juvenile Hawaiian monk seal from Lisianski (upper) and Midway (lower) islands in 2000 and 2001.

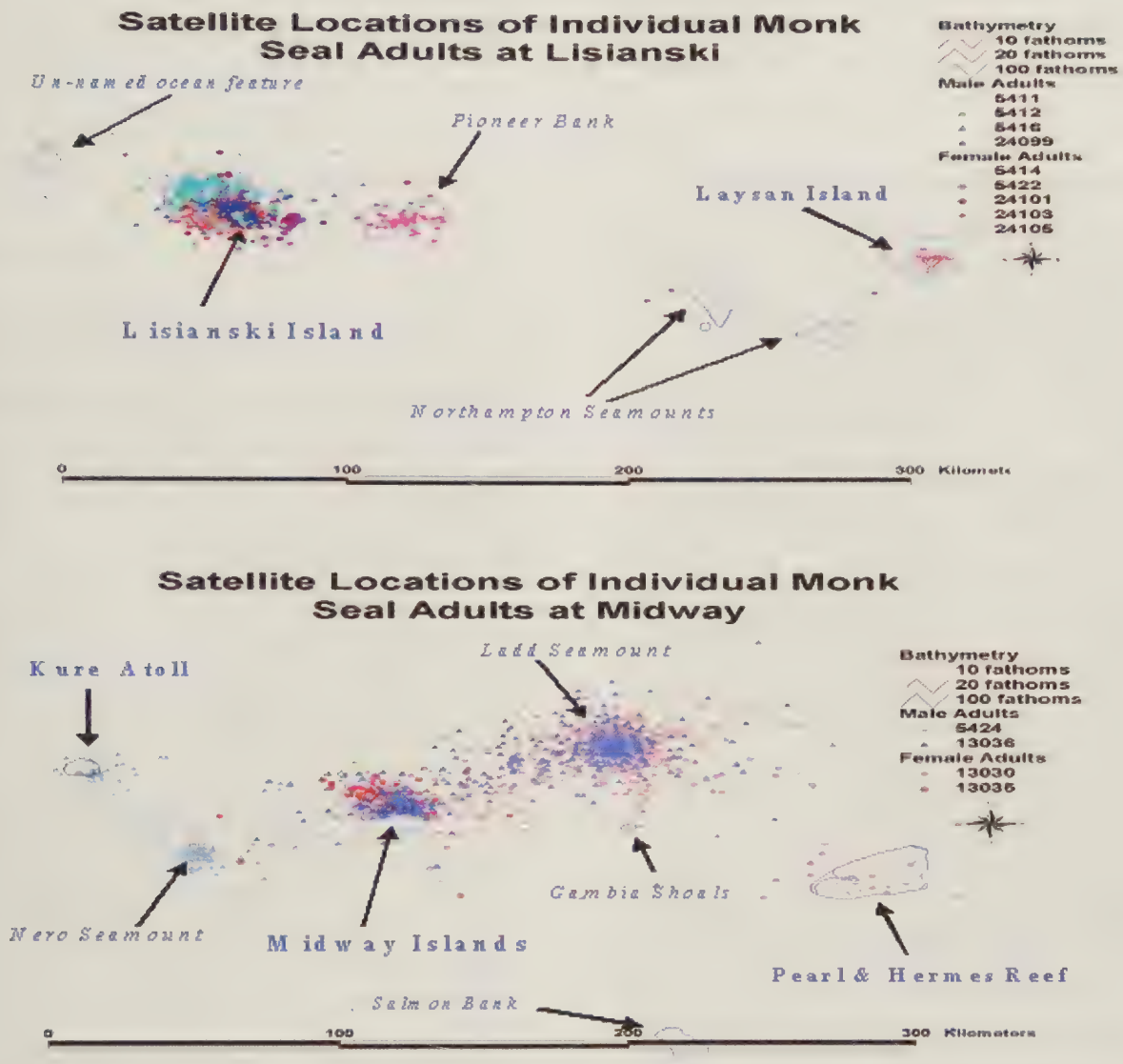


Figure 9. Foraging ranges of adult Hawaiian monk seals from Lisianski (upper) and Midway (lower) islands in 2000 and 2001.

7.1. Appendix I: Setup protocols for satellite-linked data recorders (SLDRs) deployed on Hawaiian monk seals at Lisianski Island, October 2000.

PTT ID = 5411; Seal ID GL22

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0941. ARGOS geolocation
id = 5411

Unit identifier = ms20005411. Unit started at 21:44:14 on 02/09/00
Time (GMT) is 00:42:41.05. Date (GMT) is 14 October 1900
Shallowest depth to be considered a "dive" = 8 meters
Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12
Transmission intervals(at-sea / on-land) = 00:45.00 / 01:30.00
SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".
"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance(1-message transmissions; unused xmits don't
accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
allowance

to be added to the next days allowance? [n] n

Do you wish to be able to set the daily transmission allowance on a
month-by-month basis? [n] n

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
may
exist in discrete layers? [n]

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following information to a
disk

file so that you have a permanent copy of this setup. In PROCOMM
you do this

by pressing the ALT-F1 key combination. You will then be prompted
for a

filename, a suggested name is 00T0941.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

52040C140104003C010023FD630A0100

00010101010101000000000000000101

01010101000000000030010000450000

01FFFFFFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E0100000000000000000000000000

0000000000000000000000004070200A6

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020374FFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF0548EDFF

6D733230303035343131FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393431FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
meters

Software version 3.15b. Unit number: 00T0941. ARGOS geolocation
id = 5411

Unit identifier = ms20005411. Unit started at 21:44:14 on 02/09/00
Time (GMT) is 00:43:11.05. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals(at-sea / on-land) = 00:45.00 / 01:30.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance(1-message transmissions; unused xmits don't
accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully ****. Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 5412; Seal ID GL34

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0942. ARGOS geolocation
 id = 5412

Unit identifier = ms20005412. Unit started at 21:42:15 on 02/09/00
 Time (GMT) is 01:09:48.66. Date (GMT) is 16 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2
 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:45:50 / 01:30:50
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't
 accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

-TDR> o

Do you wish to allow any unused portion of your daily transmission
 allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
 month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
 may
 exist in discrete layers? [n]

SL-TDR>

SL-TDR> e

It is strongly recommended that you log the following information to a
 disk

file so that you have a permanent copy of this setup. In PROCOMM
 you do this

by pressing the ALT-F1 key combination. You will then be prompted
 for a

filename, a suggested name is 00T0942.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

32040C140104003C010023FD630A0100

00010101010101000000000000000101

01010101000000005030010050450000

01FFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

00000000000000000000000000000000

00000000000000000000000000000000

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F6200102035AFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF054907FF

6D733230303035343132FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393432FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
 Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
 meters

Software version 3.15b. Unit number: 00T0942. ARGOS geolocation
 id = 5412

Unit identifier = ms20005412. Unit started at 21:42:15 on 02/09/00

Time (GMT) is 01:10:40.71. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:45:50 / 01:30:50

SLTDR will use on-land interval after 10 consecutive dry
 transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
 accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:
0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
**** Check these parameters carefully ****. Ready to deploy? y
Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 5414; Seal ID GF02

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0943. ARGOS geolocation
id = 5414

Unit identifier = ms20005414. Unit started at 21:46:36 on 02/09/00

Time (GMT) is 01:14:03.26. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.00 / 01:31.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
month-by-month basis? [n]

Enter number(0/6/10/14) of depth histogram bins: [14]

Enter number(0/6/10/14) of duration histogram bins: [14]

Enter number(0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
may
exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a
disk

file so that you have a permanent copy of this setup. In PROCMM
you do this

by pressing the ALT-F1 key combination. You will then be prompted
for a

filename, a suggested name is 00T0943.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

54040C140104003C010023FD630A0100

000101010101010000000000000000101

01010101000000000031010000460000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E0100000000000000000000000000

0000000000000000000000004070200E9

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020375FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF0549A1FF

6D733230303035343134FFFFFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393433FFF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
meters

Software version 3.15b. Unit number: 00T0943. ARGOS geolocation
id = 5414

Unit identifier = ms20005414. Unit started at 21:46:36 on 02/09/00

Time (GMT) is 01:14:22.03. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.00 / 01:31.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy?

SL-TDR> e

It is strongly recommended that you log the following information to
disk

file so that you have a permanent copy of this setup. In PROCMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0943.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

54040C140104003C010023FD630A0100

00010101010101000000000000000101

01010101000000000031010000460000

01FFFFFFFFFFFFF00A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

0000000000000000000000004070200E9

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020375FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF0549A1FF

6D733230303035343134FFFFFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393433FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0943. ARGOS geolocation id = 5414

Unit identifier = ms20005414. Unit started at 01:14:23 on 16/10/00

Time (GMT) is 01:15:13.67. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46:00 / 01:31:00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 5416; G208

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0944. ARGOS geolocation id = 5416

Unit identifier = ms20005416. Unit started at 21:37:33 on 02/09/00

Time (GMT) is 04:13:22.50. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46:50 / 01:31:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0944.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b
 6C040C140104003C010023FD630A0100
 000101010101000000000000000101
 01010101000000005031010050460000
 01FFFFFFFFFFFF000A0200000A0200
 000A0200007E21FE0000010000000100
 00101405010001000100020000000000
 5E010000000000000000000000000000
 00000 00000 00000 00000 00040 70200 AC
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFF000E
 30030F620 0010203 89FFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFF054A26FF
 6D7332303030353 43136FFFFFFFFFFFF
 FFFFFFFFFFFFFFFF3030543039343 4FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T0944. ARGOS geolocation id = 5416

Unit identifier = ms20005416. Unit started at 21:37:33 on 02/09/00
 Time (GMT) is 04:13:44.51. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:46:50 / 01:31:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? n

SL-TDR> t

Time (GMT) is 04:13:57.37.

SL-TDR> d

Date (GMT) is 15 October 1900

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0944.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

6C040C140104003C010023FD630A0100

000101010101000000000000000101

01010101000000005031010050460000
 01FFFFFFFFFFFF000A0200000A0200
 000A0200007E21FE0000010000000100
 00101405010001000100020000000000
 5E010000000000000000000000000000
 00000 00000 00000 00000 00040 70200 AC
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFF000E
 30030F620 0010203 89FFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFF054A26FF
 6D7332303030353 43136FFFFFFFFFFFF
 FFFFFFFFFFFFFFFF3030543039343 4FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0944. ARGOS geolocation id = 5416

Unit identifier = ms20005416. Unit started at 04:13:45 on 15/10/00
 Time (GMT) is 04:14:20.63. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46:50 / 01:31:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meter

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 5421; Seal ID GY08

Press return to accept this limit of liability and to continue...

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter
 Software version 3.15b. Unit number: 00T0945. ARGOS geolocation id = 5421

Unit identifier = ms20005421. Unit started at 01:38:34 on 07/10/00
 Time (GMT) is 02:05:11.21. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10

meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12
Transmission intervals (at-sea / on-land) = 00:47.00 / 01:32.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> t 02:05:15.0

Time (GMT) is 02:05:15.00.

SL-TDR> t

Time (GMT) is 02:05:17.94.

SL-TDR> t

Time (GMT) is 02:05:30.07.

SL-TDR> d

Date (GMT) is 17 October 1900

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM

you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0945.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

4A040C140104003C010023FD630A0100

00010101010101000000000000000101

01010101000000000032010000470000

01FFFFFFF000A0200000A0200

000A0200007E21FE000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

00000000000000000000000407020024

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F62000102036DFFFFFFF0000000

FFFFFFF0000000000000000000000000

FFFFFFF0000000000000000000000000

6D733230303035343231FFFFFFF00000

FFFFFFF0000000000000000000000000

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth

Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0945. ARGOS geolocation id = 5421

Unit identifier = ms20005421. Unit started at 0138:34 on 07/10/00

Time (GMT) is 02:05:56.40 Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:47.00 / 01:32.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 5422; Seal ID TC74

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0946. ARGOS geolocation id = 5422

Unit identifier = ms20005422. Unit started at 22:50:55 on 06/10/00

Time (GMT) is 04:20:57.37. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:47.50 / 01:32.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0946.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

FC040C140104003C01002AFD520A0100

00010101010101000000000000000101

01010101000000005032010050470000

01FFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

00000000000000000000000000000000

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFR000E

30030F620001020379FFFFFFF000000000

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFF054B9FFF

6D73323030305343232FFFFFFF000000000

FFFFFFFFFFFFFFFF30305430393436FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0946. ARGOS geolocation id = 5422

Unit identifier = ms20005422. Unit started at 22:50:55 on 06/10/00

Time (GMT) is 04:21:42.68. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2

meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:47:50 / 01:32:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it..

PTT ID = 22812; Seal ID GH22

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter Software version 3.15b. Unit number: 00T0967. ARGOS geolocation id = 22812

Unit identifier = ms200022812. Unit started at 01:42:15 on 02/09/00

Time (GMT) is 02:09:29.44. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:39:50 / 01:24:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> k

This command disables all data sampling and is used to maintain collected

data for subsequent listing. Are you sure? y

Disconnect communications cable, no further data samples will be taken

PTT ID = 22813; Seal ID GD42

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter. Software version 3.15b. Unit number: 00T0968. ARGOS geolocation id = 22813

Unit identifier = ms200022813. Unit started at 01:44:07 on 02/09/00

Time (GMT) is 02:13:08.99. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:39.00 / 01:24.00

SLTDR will use on-land interval after 10 consecutive dry

transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0968.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

C4040C1401040014010023FD620A0100

00010101010101000000000000000101

010101010000000000024010000390000

01FFFFFFFFFFFF00A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

FA000000000000000000000000000000

0000000000000000000000004070200A4

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020378FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF064752FF

6D73323030303232383133FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393638FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0968. ARGOS geolocation id = 22813

Unit identifier = ms200022813. Unit started at 01:44:07 on 02/09/00

Time (GMT) is 02:14:10.09. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:39.00 / 01:24.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends
 after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully ****. Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24098; Seal ID GQ38

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: OOT0949. ARGOS
 geolocation id = 24098
 Unit identifier = ms200024098. Unit started at 01:06:46 on 14/10/00
 Time (GMT) is 01:01:09.18. Date (GMT) is 15 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:49.00 / 01:34.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends
 after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> t
 Time (GMT) is 01:01:14.80.
 SL-TDR> v
 Battery voltage under light load = 7.140 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.140 Volts.
 SL-TDR> a3
 .W. Resistance = 255, Depth (m) = -2
 .W. Resistance = 255, Depth (m) = 0
 .W. Resistance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following information to disk
 file so that you have a permanent copy of this setup. In PROCMM you do this
 by pressing the ALT-F1 key combination. You will then be prompted for a
 filename, a suggested name is OOT0949.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 92040C140104003C010023FD630A0100
 00010101010101000000000000000101
 010101010000000000034010000490000
 01FFFFFFF000A0200000A0200
 000A0200007E21FE0000010000000100
 00101405010001000100020000000000
 5E010000000000000000000000000000
 000000000000000000000000407020022
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFF000E
 30030F620001020375FFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFF0788A3FF
 6D73323030303234303938FFFFFFFFFF
 FFFFFFFFFFFFFFFFFF4F4F5430393439FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: OOT0949. ARGOS
 geolocation id = 24098

Unit identifier = ms200024098. Unit started at 01:06:46 on 14/10/00

Time (GMT) is 01:02:28.63. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:49.00 / 01:34.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't

accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24099; Seal ID GZ10

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version .1b. Uitube: 0T95 AROSgebatonid= 409
Unit detie =ms02499 ni saredat163819on040900

Tme(GT)is01123435 at (MTi 1 Otoer19

Shllwet depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:49:50 / 01:34:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> b

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0950. ARGOS geolocation id = 24099

Unit identifier = ms200024099. Unit started at 16:38:19 on 04/09/00

Time (GMT) is 01:12:51.00. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:49:50 / 01:34:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

SW. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = -2

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCComm you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0950.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

70040C140104003C010023FD630A0100

000101010101010000000000000000101

0101010101000000005034010050490000

01FFFFFFFFFFFFFFFF000A0200000A0200

000A0200007E21FE000010000000100

00101405010001000100020000000000

5E0100000000000000000000000000

0000000000000000000000000407020064

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F62000102038BFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF788F0FF

6D73323030303234303939FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393530FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0950. ARGOS geolocation id = 24099

Unit identifier = ms200024099. Unit started at 16:38:19 on 04/09/00

Time (GMT) is 01:13:11.88. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:49:50 / 01:34:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24101; Seal ID G178

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0952.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

26040C140104003C010023FD630A0100

00010101010101000000000000000101

01010101000000005035010050500000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

000000000000000000000000407020040

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F62000102035BFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF078949FF

6D73323030303234313031FFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393532FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0952. ARGOS geolocation

id = 24101

Unit identifier = ms200024101. Unit started at 21:13:59 on 04/09/00

Time (GMT) is 01:19:41.83. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:50:50 / 01:35:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? n

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR>

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0952.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

26040C140104003C010023FD630A0100

00010101010101000000000000000101

01010101000000005035010050500000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

000000000000000000000000407020040

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F62000102035BFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF078949FF

6D73323030303234313031FFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393532FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2

meters

Software version 3.15b. Unit number: 00T0952. ARGOS geolocation id = 24101

Unit identifier = ms200024101. Unit started at 01:19:43 on 16/10/00

Time (GMT) is 01:20:02.83. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12
Transmission intervals (at-sea / on-land) = 00:50:50 / 01:35:50
SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24103; Seal ID G3AO

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0954. ARGOS geolocation id = 24103

Unit identifier = ms200024103. Unit started at 22:46:38 on 06/10/00

Time (GMT) is 04:16:22.23. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44:50 / 01:29:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't

accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0954.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

7E040C140104003C010023FD610A0100

000101010101010000000000000000101

010101010000000005029010050440000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

00000000000000000000000000000000

00000000000000000000000000000000

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020379FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF0789EFFFF

6D73323030303234313033FFFFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393534FFF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0954. ARGOS geolocation id = 24103

Unit identifier = ms200024103. Unit started at 22:46:38 on 06/10/00

Time (GMT) is 04:18:24.48. Date (GMT) is 15 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44:50 / 01:29:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
allowance

to be added to the next days allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
may
exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a
disk

file so that you have a permanent copy of this setup. In PROCOMM
you do this

by pressing the ALT-F1 key combination. You will then be prompted
for a

filename, a suggested name is 00T0954.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

7E040C140104003C010023FD610A0100

000101010101010000000000000000101

010101010000000005029010050440000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

0000000000000000000000000407020092
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF000E
30030F6200010203 79FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFF0789EFFF
6D73323030303234313033 FFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393534FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
meters

Software version 3.15b. Unit number: 00T0954. ARGOS geolocation
id = 24103

Unit identifier = ms200024103. Unit started at 04:18:25 on 15/10/00

Time (GMT) is 01:58:49.71. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44:50 / 01:29:50

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24104; Seal ID G5AM

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter
Software version 3.15b. Unit number: 00T0955. ARGOS geolocation
id = 24104

Unit identifier = ms200024104. Unit started at 01:41:49 on 07/10/00

Time (GMT) is 23:40:18.61. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44:00 / 01:29:00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

S.W. Resistance = 255, Depth (m) = -2

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCComm you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0955.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

C4040C140104003C010023FD620A0100

000101010101010000000000000000101

01010101000000000029010000440000

01FFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

0000000000000000000000004070200EF

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F6200102036CFFFFFFF0000

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFF078A3BFF

6D73323030303234313034FFFFFFFF

FFFFFFFFFFFFFFFF30305430393535FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0955. ARGOS geolocation id = 24104

Unit identifier = ms200024104. Unit started at 01:41:49 on 07/10/00

Time (GMT) is 23:40:33.49. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44:00 / 01:29:00

SLTDR will use on-land interval after 10 consecutive dry

transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24105; Seal ID G066

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0956. ARGOS geolocation id = 24105

Unit identifier = ms200024105. Unit started at 22:55:50 on 06/10/00

Time (GMT) is 01:05:56.10. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43:50 / 01:28:50

SLTDR will use on-land interval after 10 consecutive dry

transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> v

Battery voltage under light load = 7.035 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0956.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

9E040C140104003C010023FD620A0100

00010101010101000000000000000101

01010101000000005028010050430000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

000000000000000000000000040702000E

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020380FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF078A68FF

6D73323030303234313035FFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393536FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0956. ARGOS geolocation id = 24105

Unit identifier = ms200024105. Unit started at 22:55:50 on 06/10/00

Time (GMT) is 01:06:44.87. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43:50 / 01:28:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0956.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

9E040C140104003C010023FD620A0100

00010101010101000000000000000101

01010101000000005028010050430000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

5E010000000000000000000000000000

000000000000000000000000040702000E

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020380FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF078A68FF

6D73323030303234313035FFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393536FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0956. ARGOS geolocation id = 24105

Unit identifier = ms200024105. Unit started at 01:06:46 on 16/10/00

Time (GMT) is 01:12:24.11. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43:50 / 01:28:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out". "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully ****. Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it..

PTT ID = 24106; Seal ID GD24

Press return to accept this limit of liability and to continue...
 Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0957. ARGOS geolocation
 id = 24106

Unit identifier = ms200024106. Unit started at 01:25:17 on 02/09/00
 Time (GMT) is 23:31:37.86 Date (GMT) is 17 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2
 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
 meters
 Local time[0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:44:50 / 01:29:50
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't
 accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
 allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
 month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
 may
 exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a
 disk

file so that you have a permanent copy of this setup. In PROCOMM
 you do this

by pressing the ALT-F1 key combination. You will then be prompted
 for a

filename, a suggested name is 00T0957.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

70040C1401040014010023FD630A0100

00010101010101000000000000000101

01010101000000005029010050440000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE000010000000100

00101405010001000100020000000000

FA000000000000000000000000000000

00000000000000000000000040702006F

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020372FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF078A9DFF

6D73323030303234313036FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393537FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
 Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
 meters

Software version 3.15b. Unit number: 00T0957. ARGOS geolocation
 id = 24106

Unit identifier = ms200024106. Unit started at 01:25:17 on 02/09/00

Time (GMT) is 23:32:16.41. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44:50 / 01:29:50

SLTDR will use on-land interval after 10 consecutive dry
 transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
 accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y
Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24107; Seal ID GD37

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0958. ARGOS geolocation
id = 24107

Unit identifier = ms200024107. Unit started at 01:26:56 on 02/09/00
Time (GMT) is 23:33:58.63. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44.00 / 01:29.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> vv

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

SL-TDR>

SL-TDR> e

It is strongly recommended that you log the following information to a
disk

file so that you have a permanent copy of this setup. In PROCOMM
you do this

by pressing the ALT-F1 key combination. You will then be prompted
for a

filename, a suggested name is 00T0958.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

9C040C1401040014010023FD630A0100

00010101010101000000000000000001

01010101000000000029010000440000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

FA000000000000000000000000000000

```
000000000000000000000000004070200D1
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF0000E
30030F62000102037DFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFF078ACEFF
6D73323030303234313037FFFFFFFFF
FFFFFFFFFFFFFFFFF30305430393538FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
meters

Software version 3.15b. Unit number: 00T0958. ARGOS geolocation
id = 24107

Unit identifier = ms200024107. Unit started at 01:26:56 on 02/09/00
Time (GMT) is 23:34:23.93. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44.00 / 01:29.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? n

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
may

exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to
disk

file so that you have a permanent copy of this setup. In PROCOMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0958.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

9C040C1401040014010023FD630A0100

00010101010101000000000000000101

01010101000000000029010000440000

01FFFFFFF000A0200000A0200

000A0200007E21FE000010000000100

00101405010001000100020000000000

FA000000000000000000000000000000

0000000000000000000004070200D1

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F6200102037DFFFFFFF000000000

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFF78ACEFF

6D73323030303234313037FFFFFFFF

FFFFFFFFFFFFFFFF30305430393538F

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0958. ARGOS geolocation id = 24107

Unit identifier = ms200024107. Unit started at 23:34:25 on 17/10/00

Time (GMT) is 23:34:33.48. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:44.00 / 01:29.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24108; Seal ID GH00

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0959. ARGOS geolocation id = 24108

Unit identifier = ms200024108. Unit started at 21:32:07 on 02/09/00

Time (GMT) is 01:21:44.06. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43.50 / 01:28.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0959.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

```
B6040C140104001401002AFD520A0100
0001010101010101000000000000000101
01010101000000005028010050430000
01FFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE00001000000100
00101405010001000100020000000000
FA000000000000000000000000000000
00000000000000000000000004070200DE
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF000E
30030F62001020383FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFF078B24FF
6D73323030303234313038FFFFFFFFFFFF
FFFFFFFFFFFFFFFFF30305430393539FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters
Software version 3.15b. Unit number: 00T0959. ARGOS geolocation id = 24108

Unit identifier = ms200024108. Unit started at 21:32:07 on 02/09/00
Time (GMT) is 01:22:09.93. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12
Transmission intervals (at-sea / on-land) = 00:43:50 / 01:28:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24109; Seal ID GH26

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109

Unit identifier = ms200024109. Unit started at 01:28:44 on 02/09/00

Time (GMT) is 00:58:14.53. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10

meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43:00 / 01:28:00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = -2

.W. Resistance = 255, Depth (m) = -2

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may

exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0960.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

```
AA040C1401040014010023FD630A0100
```

```
0001010101010100000000000000000101
```

```
01010101000000000028010000430000
```

```
01FFFFFFFFFFFFF000A0200000A0200
```

```
000A0200007E21FE00001000000100
```



```

00101405010001000100020000000000
5E010000000000000000000000000000
000000000000000000000000040702008A
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF000E
30030F620 0010203 80FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFF078B77FF
6D7332303030323 4313039 FF646570FF
FFFFFFFFFFFFFFFFF3030543039363 0FF

```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.
 Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109
 Unit identifier = ms200024109. Unit started at 01:28:44 on 02/09/00
 Time (GMT) is 00:58:45.23. Date (GMT) is 14 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hauled-out".
 "Haul-out" ends
 after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 350
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully **** Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

+-----+

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109
 Unit identifier = ms200024109. Unit started at 01:08:29 on 14/10/00
 Time (GMT) is 01:04:31.47. Date (GMT) is 15 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> t
 Time (GMT) is 01:04:40.16.

SL-TDR> d
 Date (GMT) is 15 October 1900
 SL-TDR> v
 Battery voltage under light load = 7.175 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.175 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.175 Volts.
 SL-TDR> a3
 .W. Resistance = 255, Depth (m) = -2
 .W. Resistance = 255, Depth (m) = 0
 .W. Resistance = 255, Depth (m) = 0
 .W. Resistance = 255, Depth (m) = -2
 SL-TDR> e

It is strongly recommended that you log the following information to a disk
 file so that you have a permanent copy of this setup. In PROCMM you do this
 by pressing the ALT-F1 key combination. You will then be prompted for a
 filename, a suggested name is 00T0960.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 6A040C1401040014010023FD630A0100
 000101010101010000000000000000101
 010101010000000000028010000430000
 01FFFFFFFFFFFF00A0200000A0200
 000A0200007E21FE0000010000000100
 00101405010001000100020000000000
 FA000000000000000000000000000000
 000000000000000000000004070200EF
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFF000E
 30030F620 0010203 80FFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFF078B77FF
 6D7332303030323 4313039 FF646570FF
 FFFFFFFFFFFFFFFFFF3030543039363 0FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.
 Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109
 Unit identifier = ms200024109. Unit started at 01:08:29 on 14/10/00
 Time (GMT) is 01:05:18.71. Date (GMT) is 15 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2

meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109

Unit identifier = ms200024109. Unit started at 01:05:20 on 15/10/00

Time (GMT) is 02:04:32.85. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR>

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109

Unit identifier = ms200024109. Unit started at 01:05:20 on 15/10/00

Time (GMT) is 02:04:36.47. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following information to disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0960.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

6A040C1401040014010023FD630A0100

00010101010101000000000000000101

01010101000000000028010000430000

01FFFFFFF000A0200000A0200

000A0200007E21FE00001000000100

00101405010001000100020000000000

FA0000000000000000000000000000

000000000000000000000004070200EF

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F62001020380FFFFFFF0000

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFF078B77FF

6D73323030303234313039FF646570FF

FFFFFFFFFFFFFFFF30305430393630FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0960. ARGOS geolocation id = 24109

Unit identifier = ms200024109. Unit started at 01:05:20 on 15/10/00

Time (GMT) is 02:04:52.87. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24110; Seal ID GH06

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software vero35 nimbr:00091.AGO golca i=2410

Uitidntfir m202410 ni saredat013030n020900

Tme(GT)is01171288 at (MT) i 1 Otoer190

hllowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.50 / 01:27.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR>

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: OOTO961. ARGOS

geolocation id = 24110

Unit identifier = ms200024110. Unit started at 01:30:30 on 02/09/00

Time (GMT) is 01:17:17.12. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2

meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.50 / 01:27.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.105 Volts.

SL-TDR> v

Battery voltage under light load = 7.105 Volts.

SL-TDR> v

Battery voltage under light load = 7.105 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number(0/6/10/14) of depth histogram bins: [14]

Enter number(0/6/10/14) of duration histogram bins: [14]

Enter number(0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is OOTO961.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

AE040C1401040014010023FD630A0100

00010101010101000000000000000101

01010101000000005027010050420000

01FFFFFFF000A0200000A0200

```

000A0200007E21FE00000100000000100
00101405010001000100020000000000
FA000000000000000000000000000000
00000000000000000000000040702002A
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF000E
30030F620001020382FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFF078B82FF
6D73323030303234313130FFFFFFFF
FFFFFFFFFFFFFFFFF4F544F393631FF

```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters
Software version 3.15b. Unit number: OOTO961. ARGOS
geolocation id = 24110

Unit identifier = ms200024110. Unit started at 01:30:30 on 02/09/00
Time (GMT) is 01:17:38.17. Date (GMT) is 14 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42:50 / 01:27:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: OOTO961. ARGOS
geolocation id = 24110

Unit identifier = ms200024110. Unit started at 01:17:39 on 14/10/00

Time (GMT) is 02:08:07.90. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42:50 / 01:27:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hauled-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may

exist in discrete layers? [n]

SL-TDR>

SL-TDR> e

It is strongly recommended that you log the following information to disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is OOTO961.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

AE040C1401040014010023ED630A0100

000101010101000000000000000101

01010101000000005027010050420000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE00000100000000100

00101405010001000100020000000000

FA000000000000000000000000000000

00000000000000000000000040702002A

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E


```

30030F6200010203 82FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFF078B82FF
6D7332303030323 4313130FFFFFFFFF
FFFFFFFFFFFFFFFFF4F544F393631FF

```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: OOT0961. ARGOS geolocation id = 24110

Unit identifier = ms200024110. Unit started at 01:17:39 on 14/10/00

Time (GMT) is 02:08:39.51. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.50 / 01:27.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24111; Seal ID GD32

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0962. ARGOS geolocation id = 24111

Unit identifier = ms200024111. Unit started at 01:32:02 on 02/09/00

Time (GMT) is 23:36:24.52. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.00 / 01:27.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.245 Volts.

SL-TDR> v

Battery voltage under light load = 7.245 Volts.

SL-TDR> v

Battery voltage under light load = 7.245 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0962.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

```

70040C1401040014010023FD630A0100
00010101010101000000000000000101
010101010000000000027010000420000
01FFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00101405010001000100020000000000
FA000000000000000000000000000000
00000000000000000000000004070200D8
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF000E
30030F6200010203 80FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFF078BD1FF
6D7332303030323 4313131FFFFFFFFF
FFFFFFFFFFFFFFFFF30305430393632FF

```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0962. ARGOS geolocation id = 24111

Unit identifier = ms200024111. Unit started at 01:32:02 on 02/09/00

Time (GMT) is 23:36:39.68. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.00 / 01:27.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24112; Seal ID GD26

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0963. ARGOS geolocation id = 24112

Unit identifier = ms200024112. Unit started at 01:33:59 on 02/09/00

Time (GMT) is 01:34:09.06. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:41:50 / 01:26:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may

exist in discrete layers? [n]

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

.W. Resistance = 255, Depth (m) = 2

SL-TDR> e

It is strongly recommended that you log the following information to disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0963.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

8A040C1401040014010023FD620A0100

000101010101010000000000000000101

01010101000000005026010050410000

01FFFFFFFFFFFFFFFF000A0200000A0200

000A0200007E21FE000010000000100

00101405010001000100020000000000

FA000000000000000000000000000000

000000000000 0000000000004 070200DF

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F6200010203 80FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF078C2AFF

6D73323030303234313132 FFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393633FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0963. ARGOS geolocation id = 24112

Unit identifier = ms200024112. Unit started at 01:33:59 on 02/09/00

Time (GMT) is 01:35:36.66. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:41:50 / 01:26:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully ****. Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h
 Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24113; Seal ID GH04

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0964. ARGOS geolocation
 id = 24113

Unit identifier = ms200024113. Unit started at 01:35:36 on 02/09/00
 Time (GMT) is 00:38:50.92 Date (GMT) is 19 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2
 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:41:00 / 01:26:00
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't
 accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06, 14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.210 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
 allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
 month-by-month basis? [n]

Enter number(0/6/10/14) of depth histogram bins: [14]

Enter number(0/6/10/14) of duration histogram bins: [14]

Enter number(0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into

each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water
 may

exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a
 disk

file so that you have a permanent copy of this setup. In PROCOMM
 you do this

by pressing the ALT-F1 key combination. You will then be prompted
 for a

filename, a suggested name is 00T0964.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

2E040C1401040014010023FD620A0100

00010101010101000000000000000101

01010101000000000026010000410000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

FA000000000000000000000000000000

000000000000000000000000040702002E

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F620001020380FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF078C79FF

6D73323030303234313133FFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393634FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
 Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
 meters

Software version 3.15b. Unit number: 00T0964. ARGOS geolocation
 id = 24113

Unit identifier = ms200024113. Unit started at 01:35:36 on 02/09/00

Time (GMT) is 00:39:19.38 Date (GMT) is 19 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:41:00 / 01:26:00

SLTDR will use on-land interval after 10 consecutive dry
 transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't
 accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06, 14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 24114; Seal ID GH11

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
Software version 3.15b. Unit number: 00T0965. ARGOS geolocation
id = 24114

Unit identifier = ms200024114. Unit started at 0138:08 on 02/09/00
Time (GMT) is 02:16:42.05. Date (GMT) is 16 October 1900
Shallowest depth to be considered a "dive" = 8 meters
Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12
Transmission intervals (at-sea / on-land) = 00:40:50 / 01:25:50
SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals
Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission
allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
month-by-month basis? [n]

Enter number(0/6/10/14) of depth histogram bins: [14]

Enter number(0/6/10/14) of duration histogram bins: [14]

Enter number(0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt wat
yextn isd les?[n]

SL-TDR> e

listng cmee tatyo lg hefobin ifomaio tadik

fie o ha yu av apemaencyofths etp. IPOCMMyo d tis

by pressing the ALT-F1 key combination. You will then be prompted
for a

filename, a suggested name is 00T0965.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

80040C1401040014010023FD630A0100

00010101010101000000000000000101

01010101000000005025010050400000

01FFFFFFFFFFFF00A0200000A0200

000A0200007E21FE0000010000000100

00101405010001000100020000000000

FA0000000000000000000000000000

000000000000000000000000407020095

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFF000E

30030F620001020365FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF078C8CF

6D73323030303234313134FFFFFFFF

FFFFFFFFFFFFFFFF3030543039363 5FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth
Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2
meters

Software version 3.15b. Unit number: 00T0965. ARGOS geolocation
id = 24114

Unit identifier = ms200024114. Unit started at 0138:08 on 02/09/00

Time (GMT) is 02:17:30.74. Date (GMT) is 16 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2
meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10
meters

Local time[0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:40:50 / 01:25:50

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".
"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance (1-message transmissions; unused xmits don't
accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTTID = 24115; Seal ID TY12

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter
Software version 3.15b. Unit number: 00T0966. ARGOS geolocation
id = 24115

Unit identifier = ms200024115. Unit started at 0139:56 on 02/09/00

Time (GMT) is 01:44:18.48. Date (GMT) is 17 October 1900

Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:40.00 / 01:25.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends
 after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> v
 Battery voltage under light load = 7.210 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.210 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.210 Volts.
 SL-TDR> va3
 Battery voltage under light load = 7.210 Volts.
 Battery voltage under light load = 7.210 Volts.
 Battery voltage under light load = 7.210 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = -2
 S.W. Resistance = 255, Depth (m) = -2
 S.W. Resistance = 255, Depth (m) = -2
 SL-TDR> o
 Do you wish to allow any unused portion of your daily transmission allowance
 to be added to the next day's allowance? [n]

 Do you wish to be able to set the daily transmission allowance on a
 month-by-month basis? [n]

 Enter number (0/6/10/14) of depth histogram bins: [14]

 Enter number (0/6/10/14) of duration histogram bins: [14]

 Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

 How many histograms or timeline messages should be encoded into
 each transmission (1/2) [1]

 Will the instrument be deployed in an area where fresh and salt water
 may
 exist in discrete layers? [n]
 SL-TDR>
 SL-TDR> e
 It is strongly recommended that you log the following information to a
 disk
 file so that you have a permanent copy of this setup. In PROCOMM
 you do this
 by pressing the ALT-F1 key combination. You will then be prompted
 for a

filename, a suggested name is 00T0966.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 9C040C1401040014010023FD640A0100
 00010101010101000000000000000101
 01010101000000000025010000400000
 01FFFFFFFFFFFF000A0200000A0200
 000A0200007E21FE0000010000000100
 00101405010001000100020000000000
 FA0000000000000000000000000000
 00000000000000000000000004070200CF
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFF000E
 30030F620001020375FFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFF078CDFFF
 6D73323030303234313135FFFFFFFFF
 FFFFFFFFFFFFFFFFFF30305430393636FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.
 Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T0966. ARGOS geolocation id = 24115
 Unit identifier = ms200024115. Unit started at 0139:56 on 02/09/00
 Time (GMT) is 01:45:00.81. Date (GMT) is 17 October 1900
 Shallowest depth to be considered a "dive" = 8 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:40.00 / 01:25.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends
 after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully ****. Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 25780; Seal ID GH18

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0969. ARGOS geolocation id = 25780
 Unit identifier = ms200025780. Unit started at 0146:10 on 02/09/00
 Time (GMT) is 00:36:24.52. Date (GMT) is 19 October 1900
 Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:45:50 / 01:30:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.396 Volts.

SL-TDR> v

Battery voltage under light load = 7.396 Volts.

SL-TDR> v

Battery voltage under light load = 7.396 Volts.

SL-TDR> a3

.W. Resistance = 255, Depth (m) = 0

.W. Resistance = 255, Depth (m) = 0

W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0969.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

48040C140104001401002BFD520A0100

00010101010101000000000000000101

01010101000000005030010050450000

```
01FFFFFFFFFFFF000A0200000A0200
000A0200007E21FE000001000000100
00101405010001000100020000000000
FA000000000000000000000000000000
000000000000000000000000040702004D
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F620001020365FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFF092D1CFF
6D73323030303235373830FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393639FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0969. ARGOS geolocation id = 25780

Unit identifier = ms200025780. Unit started at 01:46:10 on 02/09/00

Time (GMT) is 00:37:05.09. Date (GMT) is 19 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:45:50 / 01:30:50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID = 25781; Seal ID GH30

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter
Software version 3.15b. Unit number: 00T0970. ARGOS geolocation id = 25781

Unit identifier = ms200025781. Unit started at 21:10:18 on 06/10/00

Time (GMT) is 00:40:33.84. Date (GMT) is 19 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.00 / 01:31.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out".
 "Haul-out" ends
 after SLTDR is "wet" for 4 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-06,14-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> o
 Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number(0/6/10/14) of depth histogram bins: [14]

Enter number(0/6/10/14) of duration histogram bins: [14]

Enter number(0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> v

Battery voltage under light load = 7.105 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> v

Battery voltage under light load = 7.070 Volts.

SL-TDR> a2

.W Rsiace= 55 Dpt () 0

.W Rsitace= 55, Depth (m) = 2

-DR a3

.W Rsitace= 55 Dpt () 0

.W Rsitance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0970.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

1A040C1401040014010023FD630A0100

00010101010101000000000000000101

010101010000000000031010000460000

01FFFFFFFFFFFF00A020000A0200

000A0200007E21FE0000010000000100
 00101405010001000100020000000000
 FA000000000000000000000000000000
 0000000000000000000000000040702009A
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFF000E
 30030F620001020381FFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFF092D4FFF
 6D73323030303235373831FFFFFFFFFF
 FFFFFFFFFFFFFFFFFF30305430393730FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T0970. ARGOS geolocation id = 25781

Unit identifier = ms200025781. Unit started at 21:10:18 on 06/10/00
 Time (GMT) is 00:43:22.03. Date (GMT) is 19 October 1900

Shallowest depth to be considered a "dive" = 8 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 40 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.00 / 01:31.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out".

"Haul-out" ends

 after SLTDR is "wet" for 4 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 250

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 **** Check these parameters carefully ****. Ready to deploy? y
 Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

7.2. Appendix II: Setup protocols for satellite-linked data recorders (SLDRs) deployed on Hawaiian monk seals at Midway Islands Island, December 2000 - January 2001.

PTT 5423: Seal ID RY00

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0947.
 ARGOS geolocation id = 5423
 Unit identifier = ms20015423. Unit started at 21:44:26
 on 31/12/00

Time (GMT) is 23:06:59.35. Date (GMT) is 31
 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=depth
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12

Transmission intervals (at-sea / on-land) = 00:48.00 / 01:33.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> v
 Battery voltage under light load = 7.140 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.105 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.105 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 SL-TDR> o
 Do you wish to allow any unused portion of your daily transmission allowance
 to be added to the next day's allowance? [n]

 Do you wish to be able to set the daily transmission allowance on a
 month-by-month basis? [n]

 Enter number (0/6/10/14) of depth histogram bins: [14]

 Enter number (0/6/10/14) of duration histogram bins: [14]

 Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

 How many histograms or timeline messages should be encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may
 exist in discrete layers? [n]
 SL-TDR> p
 User-definable identification = ms20015423
 Enter new identifier (up to 15 characters):
 Shallowest depth to be considered a "dive" = 4
 Enter new value:
 Deepest depth for accumulating surface-timelines (0=dry only) = 2
 Enter new value:
 Unit will try to detect surface every second when shallower than 20
 Enter new value:
 Unit will try to detect surface every 1/4-second when shallower than 10
 Enter new value:
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Enter new value:
 Change to on-land transmission interval after n [1-255] consecutive
 transmissions without sea-water induced delays. n = 10
 Enter new value:
 After n hours of "haul-out", unit will suspend further transmissions,
 (n = 0 will disable this option). n = 1
 Enter new value:
 "Haul-out" ends when n successive at-sea transmission intervals elapse which
 are all "wet". n = 2
 Enter new value:
 Unit will duty cycle with n [1-15] days on. n = 1
 Enter new value:
 Unit will duty cycle with n [0-15] days off. n = 0
 Enter new value:
 Nominal battery capacity is 60000 transmissions.
 See User's manual for formula to determine actual battery capacity.
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
 Enter new daily allowance [1-65535]:
 STATUS will be transmitted every nth [0-255] message. n = 20
 Enter new value:
 Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
 Enter new value:
 Transmission hours with good satellite coverage
 |00000000001111111112222|
 (these hours (read vertically) are all in GMT)
 |012345678901234567890123|
 -----+-----

---+

Current setting (1=good, 0=bad)

|01111111100111111110000|

Enter new settings.:

(in listing the histogram bins, the symbol * indicates
that there is no upper limit for this bin.)Set the upper limits of the maximum-depth histogram
bins:Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180,
200, 250, 350, 450, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30,
40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins
(0 = haul-out):Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160,
180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> e

It is strongly recommended that you log the following
information to a diskfile so that you have a permanent copy of this setup. In
PRO COMM you do thisby pressing the ALT-F1 key combination. You will then
be prompted for a

filename, a suggested name is 00T0947.SET

After you have entered a filename, press return to
continue.

SLTDR version: 3.15b

84020C140102003C010023FD620A0100

00010101010101010101000001010101

01010101000000000033010000480000

01FFFFFFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00100A05010001000100020000000000

90010000000000000000000000000000

0000000000000000000000000407020081

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F62000102037FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF054BCCFF

6D733230303135343233FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305430393437FF

Quarter-Watt, Microprocessor-controlled Satellite-linked
Time-Depth Recorder.Unit measures depth from 0 to 490 meters with a
resolution of 2 meters

Software version 3.15b. Unit number: 00T0947.

ARGOS geolocation id = 5423

Unit identifier = ms20015423. Unit started at 21:44:26
on 31/12/00Time (GMT) is 23:07:22.50. Date (GMT) is 31
December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=di
only) = 2 metersSLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 metersLocal time [0-23 hours] corresponding to 00h UT
(GMT): 12Transmission intervals (at-sea / on-land) = 00:48.00 /
01:33.00SLTDR will use on-land interval after 10 consecutive d
transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervalsTransmissions will be duty cycled with 1 day on and 0
days offDaily allowance (1-message transmissions; unused xmit
don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters**** Check these parameters carefully ****. Ready to
deploy? yType D to archive depth readings, H to archive
histograms: hUnit is ready for deployment, disconnect cable and go t
it...

PTT 5424; Seal ID BN44

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0948.
 ARGOS geolocation id = 5424
 Unit identifier = ms20015424. Unit started at 21:47:35 on 31/12/00
 Time (GMT) is 23:08:33.65. Date (GMT) is 31 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:48.50 / 01:33.50
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR>
 SL-TDR> v
 Battery voltage under light load = 7.175 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.140 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.140 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms20015424

Enter new identifier (up to .15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1
 Enter new value:
 Unit will duty cycle with n [0-15] days off. n = 0
 Enter new value:
 Nominal battery capacity is 60000 transmissions.
 See User's manual for formula to determine actual battery capacity.
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
 Enter new daily allowance [1-65535]:
 STATUS will be transmitted every nth [0-255] message.
 n = 20
 Enter new value:
 Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
 Enter new value:
 Transmission hours with good satellite coverage
 |0000000000111111112222|
 (these hours (read vertically) are all in GMT)
 |012345678901234567890123|
 -----+-----
 ---+
 Current setting (1=good, 0=bad)
 |01111111110011111110000|
 Enter new settings. :
 (in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)
 Set the upper limits of the maximum-depth histogram bins:
 Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Enter new limits (in meters):
 Set the upper limits of the dive-duration histogram bins:
 Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Enter new limits (in minutes):
 Set the upper limits of the time-at-depth histogram bins (0 = haul-out):
 Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 Enter new limits (in meters):
 SL-TDR> e
 It is strongly recommended that you log the following information to a disk file so that you have a permanent copy of this setup. In PROCOMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a filename, a suggested name is 00T0948.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 84020C140102003C010023FD620A0100

```
0001010101010101010101000001010101
01010101000000005033010050480000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
90010000000000000000000000000000
000000000000000000000000407020074
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F62000102037EFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFF054C37FF
6D733230303135343234FFFFFFFFFFFF
FFFFFFFFFFFFFFFFF30305430393438FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.
 Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T0948.
 ARGOS geolocation id = 5424
 Unit identifier = ms20015424. Unit started at 21:47:35 on 31/12/00
 Time (GMT) is 23:08:59.00. Date (GMT) is 31 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=div only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:48.50 / 01:33.50
 SLTDR will use on-land interval after 10 consecutive transmissions
 SLTDR will suspend transmissions after 1 hours "hauled-out". "Haul-out" ends after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09, 12-19
 Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 * meters
 **** Check these parameters carefully ****. Ready to
 deploy? y
 Type D to archive depth readings, H to archive
 histograms: h

Unit is ready for deployment, disconnect cable and go for
 it...

PTT ID 13030; Seal ID BK27

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0984.
 ARGOS geolocation id = 13030
 Unit identifier = ms200113030. Unit started at 21:07:19
 on 15/11/00
 Time (GMT) is 20:03:55.19. Date (GMT) is 02 January
 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:39.00 /
 01:24.00
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions
 SLTDR will suspend transmissions after 1 hours
 "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea
 transmission intervals
 Transmissions will be duty cycled with 1 day on and 0
 days off
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 400
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48
 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 * meters
 SL-TDR>
 SL-TDR> v
 Battery voltage under light load = 7.224 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.224 Volts.
 SL-TDR> va3
 Battery voltage under light load = 7.224 Volts.
 Battery voltage under light load = 7.224 Volts.
 Battery voltage under light load = 7.224 Volts.
 SL-TDR>

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a

month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200113030

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 60000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmit don't accumulate) = 400

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message. n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage

|0000000000111111112222|

(these hours (read vertically) are all in GMT)

|012345678901234567890123|

-----+-----

---+

Current setting (1=good, 0=bad)

|011111111100111111110000|

Enter new settings.:

(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins:

(0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0984.SET
After you have entered a filename, press return to continue.

SLTDR version: 3.15b

```
78020C140102003C01002AFD520A0100
00010101010101010101000001010101
01010101000000000024010000390000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
90010000000000000000000000000000
00000000000000000000000407020042
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F62000102035CFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFF0CB9B5FF
6D73323030313133303330FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393834FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked
Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a
resolution of 2 meters

Software version 3.15b. Unit number: 00T0984.

ARGOS geolocation id = 13030

Unit identifier = ms200113030. Unit started at 21:07:19
on 15/11/00

Time (GMT) is 20:04:24.99. Date (GMT) is 02 January
1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:39.00 /
01:24.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive

histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT ID 13032; Seal ID RY04

Satellite-linked Data Recorder with Telonics ST-16
Argos Transmitter.

Software version 3.15b. Unit number: 00T0986.

ARGOS geolocation id = 13032

Unit identifier = ms200113032. Unit started at 21:17:46
on 15/11/00

Time (GMT) is 00:31:48.83. Date (GMT) is 04 January
1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:40.00 /
01:25.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

SL-TDR> t

Time (GMT) is 00:32:03.71.

SL-TDR> d

Date (GMT) is 04 January 1901

SL-TDR> v

Battery voltage under light load = 7.396 Volts.

SL-TDR> v

Battery voltage under light load = 7.396 Volts.

SL-TDR> v

Battery voltage under light load = 7.396 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 2

S.W. Resistance = 255, Depth (m) = 2

SL-TDR> o

Do you wish to allow any unused portion of your daily
transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
allowance on a

month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
[14]

Enter number (0/6/10/14) of time-at-depth histogram
bins: [14]

How many histograms or timeline messages should be
encoded into

each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
and salt water may

exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200113032

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
only) = 2

Enter new value:

Unit will try to detect surface every second when
shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when
shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255]
consecutive

transmissions without sea-water induced delays. n = 100

Enter new value:

After n hours of "haul-out", unit will suspend further
transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission

intervals elapse which
are all "wet". n = 2
Enter new value:
Unit will duty cycle with n [1-15] days on. n = 1
Enter new value:
Unit will duty cycle with n [0-15] days off. n = 0
Enter new value:
Nominal battery capacity is 60000 transmissions.
See User's manual for formula to determine actual battery
capacity.
Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 400
Enter new daily allowance [1-65535]:
STATUS will be transmitted every nth [0-255] message.
n = 20
Enter new value:
Blocks of Time-Lines will be transmitted every nth
[0-255] message. n = 48
Enter new value:
Transmission hours with good satellite coverage
|00000000001111111112222|
(these hours (read vertically) are all in GMT)
|012345678901234567890123|
-----+-----
---+
Current setting (1=good, 0=bad)
|011111111100111111110000|
Enter new settings. :
(in listing the histogram bins, the symbol * indicates
that there is no upper limit for this bin.)
Set the upper limits of the maximum-depth histogram
bins:
Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180,
200, 250, 350, 450, * meters
Enter new limits (in meters):
Set the upper limits of the dive-duration histogram bins:
Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30,
40, * minutes
Enter new limits (in minutes):
Set the upper limits of the time-at-depth histogram bins
(0 = haul-out):
Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160,
180, 200, 250, 350, * meters
Enter new limits (in meters):
SL-TDR> e
It is strongly recommended that you log the following
information to a disk
file so that you have a permanent copy of this setup. In
PROCOMM you do this
by pressing the ALT-F1 key combination. You will then
be prompted for a
filename, a suggested name is 00T0986.SET
After you have entered a filename, press return to

continue.

SLTDR version: 3.15b
72020C140102003C01002BFD510A0100
00010101010101010101000001010101
01010101000000000025010000400000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
90010000000000000000000000000000
0000000000000000000000004070200B7
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F62000102035DFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFF0CBA32FF
6D73323030313133303332FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393836FF

Quarter-Watt, Microprocessor-controlled Satellite-linked
Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a
resolution of 2 meters

Software version 3.15b. Unit number: 00T0986.

ARGOS geolocation id = 13032

Unit identifier = ms200113032. Unit started at 21:17:46
on 15/11/00

Time (GMT) is 00:33:05.54. Date (GMT) is 04 January
1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:40.00 /
01:25.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive
histograms: h

Unit is ready for deployment, disconnect cable and go for
it..

PTT ID 13035; Seal ID R101

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0990.
 ARGOS geolocation id = 13036
 Unit identifier = ms200113036. Unit started at 16:02:05
 on 16/11/00
 Time (GMT) is 07:38:27.79. Date (GMT) is 01 January
 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:42.00 /
 01:27.00
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions
 SLTDR will suspend transmissions after 1 hours
 "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea
 transmission intervals
 Transmissions will be duty cycled with 1 day on and 0
 days off
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 400
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48
 messages.
 Hours when SLTDR transmit
 SL-TDR> b

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0990.
 ARGOS geolocation id = 13036
 Unit identifier = ms200113036. Unit started at 16:02:05
 on 16/11/00
 Time (GMT) is 07:38:35.40. Date (GMT) is 01 January
 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:42.00 /
 01:27.00

SLTDR will use on-land interval after 10 consecutive dry
 transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea

transmission intervals

Transmissions will be duty cycled with 1 day on and 0
 days off

Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
 messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 200, 250, 350, 450, 0,
 * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 * meters

SL-TDR> o

Do you wish to allow any unused portion of your daily
 transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
 allowance on a
 month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
 [14]

Enter number (0/6/10/14) of time-at-depth histogram
 bins: [14]

How many histograms or timeline messages should be
 encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
 and salt water may
 exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200113036

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
 only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 60000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message. n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage

|00000000001111111112222|

(these hours (read vertically) are all in GMT)

|012345678901234567890123| Current setting

(1=good, 0=bad) |0111111110011111110000|

Enter new settings. :

(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 200, 250, 350, 450, 0, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30,

40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins (0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> p

User-definable identification = ms200113036

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dt only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 60000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message. n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage


```
|0000000000111111111222|
(these hours (read vertically) are all in GMT)
|012345678901234567890123| Current setting (1=good,
0=bad) |0111111110011111110000|
```

Enter new settings.:

(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 200, 250, 350, 450, 0, * meters

Enter new limits (in meters):

20,40,60,80,100,120,140,160,180,200,250,350,450,

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins (0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> v

Battery voltage under light load = 7.353 Volts.

SL-TDR> v

Battery voltage under light load = 7.353 Volts.

SL-TDR> v

Battery voltage under light load = 7.353 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0990.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

6C020C140102003C01002BFD510A0100

00010101010101010101000001010101

01010101000000000027010000420000

01FFFFFFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00100A05010001000100020000000000

90010000000000000000000000000000

0000000000000000000000004070200B6

0A141E28323C46505A647DAFE1FF000E

```
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F62000102035FFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
6D73323030313133303336FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393930FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0990.

ARGOS geolocation id = 13036

Unit identifier = ms200113036. Unit started at 16:02:05 on 16/11/00

Time (GMT) is 07:40:33.49. Date (GMT) is 01 January 1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.00 / 01:27.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID 13044; Seal ID RH26

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0998.
 ARGOS geolocation id = 13044
 Unit identifier = ms200113044. Unit started at 21:07:03
 on 16/11/00
 Time (GMT) is 07:10:53.93. Date (GMT) is 01 January
 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:46.00 /
 01:31.00
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions
 SLTDR will suspend transmissions after 1 hours
 "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea
 transmission intervals
 Transmissions will be duty cycled with 1 day on and 0
 days off
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 300
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48
 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 * meters
 SL-TDR> v
 Battery voltage under light load = 7.224 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.224 Volts.
 SL-TDR> va3
 Battery voltage under light load = 7.224 Volts.
 Battery voltage under light load = 7.224 Volts.
 Battery voltage under light load = 7.224 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily
 transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
 allowance on a

month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
 [14]

Enter number (0/6/10/14) of time-at-depth histogram
 bins: [14]

How many histograms or timeline messages should be
 encoded into

each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
 and salt water may

exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200113044

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
 only) = 2

Enter new value:

Unit will try to detect surface every second when
 shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when
 shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255]
 consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further
 transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission
 intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 20000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message. n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage

|00000000011111111222|

(these hours (read vertically) are all in GMT)

|012345678901234567890123|

-----+-----

---+

Current setting (1=good, 0=bad)

|0111111110011111110000|

Enter new settings. :

(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins (0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0998.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

6E020C140102001401002AFD530A0100

0001010101010101010101000001010101

01010101000000000031010000460000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00100A05010001000100020000000000

2C010000000000000000000000000000

00000000000000000000000407020007

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F620001020373FFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF0CBD3CFF

6D73323030313133303434FFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393938FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0998.

ARGOS geolocation id = 13044

Unit identifier = ms200113044. Unit started at 21:07:00 on 16/11/00

Time (GMT) is 07:11:50.08. Date (GMT) is 01 January 1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=days only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.00 / 01:31.00

SLTDR will use on-land interval after 10 consecutive transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09, 12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350

450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,

* meters

**** Check these parameters
carefully ****. Ready to deploy? y
Type D to archive depth readings,
H to archive histograms: h

Unit is ready for deployment,
disconnect cable and go for it..

PTT ID 13045; Seal ID RD20

Satellite-linked Data Recorder with Telonics ST-16
Argos Transmitter.

Software version 3.15b. Unit number: 00T0999.

ARGOS geolocation id = 13045

Unit identifier = ms200113045. Unit started at 21:08:54
on 16/11/00

Time (GMT) is 07:17:06.28. Date (GMT) is 01 January
1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.50 /
01:31.50

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours
"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> vv

Battery voltage under light load = 7.224 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 2

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily
transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
allowance on a

month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
[14]

Enter number (0/6/10/14) of time-at-depth histogram
bins: [14]

How many histograms or timeline messages should be
encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
and salt water may
exist in discrete layers? [n]

SL-TDR>

SL-TDR> p

User-definable identification = ms200113045

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
only) = 2

Enter new value:

Unit will try to detect surface every second when
shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when
shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255]
consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 20000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message.

n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth

[0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage

|000000000011111111112222|

(these hours (read vertically) are all in GMT)

|012345678901234567890123|

-----+-----
---+

Current setting (1=good, 0=bad)

|011111111100111111110000|

Enter new settings. :

(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins

(0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In

PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T0999.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

1E020C140102001401002AFD520A0100

00010101010101010101000001010101

01010101000000005031010050460000

01FFFFFFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00100A05010001000100020000000000

2C010000000000000000000000000000

00000000000000000000000040702002A

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F62000102037CFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFF0CBD6FFF

6D73323030313133303435FFFFFFFFFF

FFFFFFFFFFFFFFFFF30305430393939FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T0999.

ARGOS geolocation id = 13045

Unit identifier = ms200113045. Unit started at 21:08:54 on 16/11/00

Time (GMT) is 07:18:19.13. Date (GMT) is 01 January 1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:46.50 / 01:31.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits

don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive

histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID 13046; Seal ID RH04

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T1000.
 ARGOS geolocation id = 13046
 Unit identifier = ms200113046. Unit started at 16:04:38
 on 17/11/00
 Time (GMT) is 07:21:58.03. Date (GMT) is 01 January
 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:47.00 /
 01:32.00
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions
 SLTDR will suspend transmissions after 1 hours
 "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea
 transmission intervals
 Transmissions will be duty cycled with 1 day on and 0
 days off
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 300
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48
 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 * meters
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = 4
 S.W. Resistance = 255, Depth (m) = 4
 S.W. Resistance = 255, Depth (m) = 4
 S.W. Resistance = 255, Depth (m) = 4

S.W. Resistance = 255, Depth (m) = 4

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 10

S.W. Resistance = 255, Depth (m) = 10

S.W. Resistance = 255, Depth (m) = 4

S.W. Resistance = 255, Depth (m) = 4

S.W. Resistance = 255, Depth (m) = 4

SL-TDR> o

Do you wish to allow any unused portion of your daily
 transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
 allowance on a

month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
 [14]

Enter number (0/6/10/14) of time-at-depth histogram
 bins: [14]

How many histograms or timeline messages should be
 encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
 and salt water may
 exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200113046

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
 only) = 2

Enter new value:

Unit will try to detect surface every second when
 shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when
 shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255]
 consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further

transmissions,
 (n = 0 will disable this option). n = 1
 Enter new value:
 "Haul-out" ends when n successive at-sea transmission
 intervals elapse which
 are all "wet". n = 2
 Enter new value:
 Unit will duty cycle with n [1-15] days on. n = 1
 Enter new value:
 Unit will duty cycle with n [0-15] days off. n = 0
 Enter new value:
 Nominal battery capacity is 20000 transmissions.
 See User's manual for formula to determine actual battery
 capacity.
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 300
 Enter new daily allowance [1-65535]:
 STATUS will be transmitted every nth [0-255] message.
 n = 20
 Enter new value:
 Blocks of Time-Lines will be transmitted every nth
 [0-255] message. n = 48
 Enter new value:
 Transmission hours with good satellite coverage
 |00000000001111111112222|
 (these hours (read vertically) are all in GMT)
 |012345678901234567890123|
 -----+-----
 ---+
 Current setting (1=good, 0=bad)
 |01111111110011111110000|
 Enter new settings. :
 (in listing the histogram bins, the symbol * indicates
 that there is no upper limit for this bin.)
 Set the upper limits of the maximum-depth histogram
 bins:
 Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180,
 200, 250, 350, 450, * meters
 Enter new limits (in meters):
 Set the upper limits of the dive-duration histogram bins:
 Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30,
 40, * minutes
 Enter new limits (in minutes):
 Set the upper limits of the time-at-depth histogram bins
 (0 = haul-out):
 Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160,
 180, 200, 250, 350, * meters
 Enter new limits (in meters):
 SL-TDR> e
 It is strongly recommended that you log the following
 information to a disk
 file so that you have a permanent copy of this setup. In
 PROCOMM you do this

by pressing the ALT-F1 key combination. You will then
 be prompted for a
 filename, a suggested name is 00T1000.SET
 After you have entered a filename, press return to
 continue.
 SLTDR version: 3.15b
 7A020C140102001401002BFD510A0100
 0001010101010101010101000001010101
 010101010000000000032010000470000
 01FFFFFFFFFFFFFFFF000A0200000A0200
 000A0200007E21FE0000010000000100
 00100A05010001000100020000000000
 2C010000000000000000000000000000
 0000000000000000000000004070200B7
 0A141E28323C46505A647DAFE1FF000E
 020406080A0C0E101214191E28FF000E
 000A141E28323C46505A647DAFFF000E
 30030F62000102037BFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
 FFFFFFFFFFFFFFFFFFFFFFFFFF0CBD9AFF
 6D73323030313133303436FFFFFFFFFF
 FFFFFFFFFFFFFFFFFF30305431303030FF

Quarter-Watt, Microprocessor-controlled Satellite-linked
 Time-Depth Recorder.
 Unit measures depth from 0 to 490 meters with a
 resolution of 2 meters
 Software version 3.15b. Unit number: 00T 1000.
 ARGOS geolocation id = 13046
 Unit identifier = ms200113046. Unit started at 16:04:30
 on 17/11/00
 Time (GMT) is 07:23:21.86. Date (GMT) is 01 January
 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dr
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:47.00 /
 01:32.00
 SLTDR will use on-land interval after 10 consecutive d
 transmissions
 SLTDR will suspend transmissions after 1 hours
 "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea
 transmission intervals
 Transmissions will be duty cycled with 1 day on and 0
 days off
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 300
 STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

PTT ID 13047; Seal ID RH16

Satellite-linked Data Recorder with Telonics ST-16
Argos Transmitter.

Software version 3.15b. Unit number: 00T1001.

ARGOS geolocation id = 13047

Unit identifier = ms200113047. Unit started at 16:06:05
on 17/11/00

Time (GMT) is 07:28:27.39. Date (GMT) is 01 January
1901

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:47.50 /
01:32.50

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours
"hauled-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:
20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:
2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:
0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

SL-TDR> v

Battery voltage under light load = 7.353 Volts.

SL-TDR> v

Battery voltage under light load = 7.353 Volts.

SL-TDR> v

Battery voltage under light load = 7.353 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily
transmission allowance

to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
allowance on a
month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
[14]

Enter number (0/6/10/14) of time-at-depth histogram
bins: [14]

How many histograms or timeline messages should be
encoded into
each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
and salt water may
exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200113047

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
only) = 2

Enter new value:

Unit will try to detect surface every second when
shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when
shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255]
consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further
transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission
intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1
 Enter new value:
 Unit will duty cycle with n [0-15] days off. n = 0
 Enter new value:
 Nominal battery capacity is 20000 transmissions.
 See User's manual for formula to determine actual battery capacity.
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
 Enter new daily allowance [1-65535]:
 STATUS will be transmitted every nth [0-255] message.
 n = 20
 Enter new value:
 Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
 Enter new value:
 Transmission hours with good satellite coverage
 |00000000001111111112222|
 (these hours (read vertically) are all in GMT)
 |012345678901234567890123|
 -----+-----
 ---+
 Current setting (1=good, 0=bad)
 |01111111110011111110000|
 Enter new settings. :
 (in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)
 Set the upper limits of the maximum-depth histogram bins:
 Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Enter new limits (in meters):
 Set the upper limits of the dive-duration histogram bins:
 Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Enter new limits (in minutes):
 Set the upper limits of the time-at-depth histogram bins (0 = haul-out):
 Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 Enter new limits (in meters):
 SL-TDR> e
 It is strongly recommended that you log the following information to a disk
 file so that you have a permanent copy of this setup. In PROCOMM you do this
 by pressing the ALT-F1 key combination. You will then be prompted for a
 filename, a suggested name is 00T1001.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 86020C140102001401002BFD520A0100

```
00010101010101010101000001010101
01010101000000005032010050470000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
2C010000000000000000000000000000
0000000000000000000000004070200E0
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFF000E
30030F620001020380FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFF0CBDC9FF
6D73323030313133303437FFFFFFFFF
FFFFFFFFFFFFFFFFF30305431303031FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.
 Unit measures depth from 0 to 490 meters with a resolution of 2 meters
 Software version 3.15b. Unit number: 00T 1001.
 ARGOS geolocation id = 13047
 Unit identifier = ms200113047. Unit started at 16:06:05 on 17/11/00
 Time (GMT) is 07:28:56.64. Date (GMT) is 01 January 1901
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:47.50 / 01:32.50
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,

* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive

histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT 24100; Seal ID RQ02

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T0951.
 ARGOS geolocation id = 24100
 Unit identifier = ms200124110. Unit started at 21:40:40 on 31/12/00
 Time (GMT) is 23:01:48.58. Date (GMT) is 31 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:50.00 / 01:35.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hauled-out". "Haul-out" ends after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> o
 Do you wish to allow any unused portion of your daily transmission allowance to be added to the next day's allowance? [n]

 Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

 Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200124110

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 60000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message.

n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth
[0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage

[0000000001111111112222]

(these hours (read vertically) are all in GMT)

[012345678901234567890123]

-----+-----
---+

Current setting (1=good, 0=bad)

[0111111110011111110000]

Enter new settings. :

(in listing the histogram bins, the symbol * indicates
that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram
bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180,
200, 250, 350, 450, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30,
40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins
(0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160,
180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> v

Battery voltage under light load = 7.140 Volts.

SL-TDR> v

Battery voltage under light load = 7.105 Volts.

SL-TDR> v

Battery voltage under light load = 7.105 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 0

SL-TDR> e

It is strongly recommended that you log the following
information to a disk

file so that you have a permanent copy of this setup. In
PROCOMM you do this
by pressing the ALT-F1 key combination. You will then
be prompted for a

filename, a suggested name is 00T0951.SET

After you have entered a filename, press return to
continue.

SLTDR version: 3.15b

04020C140102003C010023FD630A0100

00010101010101010101000001010101

01010101000000000035010000500000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
90010000000000000000000000000000
0000000000000000000000004070200DC
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F620001020365FFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
6D73323030313234313130FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393531FF

Quarter-Watt, Microprocessor-controlled Satellite-link
Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a
resolution of 2 meters

Software version 3.15b. Unit number: 00T0951.

ARGOS geolocation id = 24100

Unit identifier = ms200124110. Unit started at 21:40:4
on 31/12/00

Time (GMT) is 23:02:19.17. Date (GMT) is 31
December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=d
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:50.00 /
01:35.00

SLTDR will use on-land interval after 10 consecutive
transmissions

SLTDR will suspend transmissions after 1 hours
"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea
transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xma
don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:
0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive
histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT 24102; Seal ID RQ15

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.

Software version 3.15b. Unit number: 00T0953.

ARGOS geolocation id = 24102

Unit identifier = ms200124102. Unit started at 21:35:10 on 31/12/00

Time (GMT) is 23:05:09.75. Date (GMT) is 31 December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:51.00 / 01:36.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> v

Battery voltage under light load = 7.175 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 2

S.W. Resistance = 255, Depth (m) = 2

S.W. Resistance = 255, Depth (m) = 2

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200124102

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:
Unit will duty cycle with n [0-15] days off. n = 0
Enter new value:
Nominal battery capacity is 60000 transmissions.
See User's manual for formula to determine actual battery capacity.
Daily allowance (1-message transmissions; unused xmits don't accumulate) = 400
Enter new daily allowance [1-65535]:
STATUS will be transmitted every nth [0-255] message.
n = 20
Enter new value:
Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
Enter new value:
Transmission hours with good satellite coverage
|0000000000111111112222|
(these hours (read vertically) are all in GMT)
|012345678901234567890123|
-----+-----
---+
Current setting (1=good, 0=bad)
|01111111110011111110000|
Enter new settings. :
(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)
Set the upper limits of the maximum-depth histogram bins:
Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
Enter new limits (in meters):
Set the upper limits of the dive-duration histogram bins:
Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
Enter new limits (in minutes):
Set the upper limits of the time-at-depth histogram bins (0 = haul-out):
Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
Enter new limits (in meters):
SL-TDR> e
It is strongly recommended that you log the following information to a disk
file so that you have a permanent copy of this setup. In PROCOMM you do this
by pressing the ALT-F1 key combination. You will then be prompted for a
filename, a suggested name is 00T0953.SET
After you have entered a filename, press return to continue.
SLTDR version: 3.15b
4A020C140102003C010023FD630A0100
00010101010101010101000001010101

```
01010101000000000036010000510000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
90010000000000000000000000000000
0000000000000000000000000407020026
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F620001020374FFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFF0789BCFF
6D73323030313234313032FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305430393533FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked
Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a
resolution of 2 meters

Software version 3.15b. Unit number: 00T0953.

ARGOS geolocation id = 24102

Unit identifier = ms200124102. Unit started at 21:35:10
on 31/12/00

Time (GMT) is 23:05:40.28. Date (GMT) is 31
December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry
only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower
than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT
(GMT): 12

Transmission intervals (at-sea / on-land) = 00:51.00 /
01:36.00

SLTDR will use on-land interval after 10 consecutive dry
transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea

transmission intervals

Transmissions will be duty cycled with 1 day on and 0
days off

Daily allowance (1-message transmissions; unused xmits
don't accumulate) = 400

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48
messages.

Hours when SLTDR transmits: 01-09, 12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,

* meters

**** Check these parameters carefully ****. Ready to

deploy? y

Type D to archive depth readings, H to archive

histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT ID 24195; Seal ID RD24

Satellite-linked Data Recorder with Telonics ST-16
 Argos Transmitter.
 Software version 3.15b. Unit number: 00T 1014.
 ARGOS geolocation id = 24195
 Unit identifier = ms200124195. Unit started at 22:00:15
 on 31/12/00
 Time (GMT) is 23:14:38.15. Date (GMT) is 31
 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry
 only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower
 than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:41.50 /
 01:26.50
 SLTDR will use on-land interval after 10 consecutive dry
 transmissions
 SLTDR will suspend transmissions after 1 hours
 "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea
 transmission intervals
 Transmissions will be duty cycled with 1 day on and 0
 days off
 Daily allowance (1-message transmissions; unused xmits
 don't accumulate) = 300
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48
 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
 * meters
 SL-TDR> v
 Battery voltage under light load = 7.310 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.310 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.310 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 SL-TDR> o

Do you wish to allow any unused portion of your daily
 transmission allowance
 to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission
 allowance on a
 month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins:
 [14]

Enter number (0/6/10/14) of time-at-depth histogram
 bins: [14]

How many histograms or timeline messages should be
 encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh
 and salt water may
 exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200124195

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry
 only) = 2

Enter new value:

Unit will try to detect surface every second when
 shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when
 shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT
 (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255]
 consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further
 transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission
 intervals elapse which
 are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:
 Unit will duty cycle with n [0-15] days off. n = 0
 Enter new value:
 Nominal battery capacity is 20000 transmissions.
 See User's manual for formula to determine actual battery capacity.
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
 Enter new daily allowance [1-65535]:
 STATUS will be transmitted every nth [0-255] message. n = 20
 Enter new value:
 Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
 Enter new value:
 Transmission hours with good satellite coverage
 |00000000011111111222|
 (these hours (read vertically) are all in GMT)
 |012345678901234567890123|
 -----+-----
 ---+
 Current setting (1=good, 0=bad)
 |0111111110011111110000|
 Enter new settings. :
 (in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)
 Set the upper limits of the maximum-depth histogram bins:
 Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Enter new limits (in meters):
 Set the upper limits of the dive-duration histogram bins:
 Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Enter new limits (in minutes):
 Set the upper limits of the time-at-depth histogram bins (0 = haul-out):
 Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 Enter new limits (in meters):
 SL-TDR> e
 It is strongly recommended that you log the following information to a disk file so that you have a permanent copy of this setup. In PROCOMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a filename, a suggested name is 00T1014.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 8E020C140102001401002BFD520A0100
 000101010101010101000001010101

```

01010101000000005026010050410000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
2C010000000000000000000000000000
000000000000000000000000407020014
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F620001020376FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFF07A0C9FF
6D73323030313234313935FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305431303134FF

```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T1014.

ARGOS geolocation id = 24195

Unit identifier = ms200124195. Unit started at 22:00:1 on 31/12/00

Time (GMT) is 23:15:01.00. Date (GMT) is 31 December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dr only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:41.50 / 01:26.50

SLTDR will use on-land interval after 10 consecutive d transmissions

SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmit don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09,12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:
0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive
histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT 24196; Seal ID RY14

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T1015.
 ARGOS geolocation id = 24196
 Unit identifier = ms200124196. Unit started at 22:04:59 on 31/12/00
 Time (GMT) is 23:12:21.23. Date (GMT) is 31 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:42.00 / 01:27.00
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends
 after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are:
 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are:
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are:
 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = -2
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance
 to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a
 month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into
 each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may
 exist in discrete layers? [n]

SL-TDR>

SL-TDR> p

User-definable identification = ms200124196

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1
Enter new value:
Unit will duty cycle with n [0-15] days off. n = 0
Enter new value:
Nominal battery capacity is 20000 transmissions.
See User's manual for formula to determine actual battery capacity.
Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
Enter new daily allowance [1-65535]:
STATUS will be transmitted every nth [0-255] message. n = 20
Enter new value:
Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
Enter new value:
Transmission hours with good satellite coverage
|00000000001111111112222|
(these hours (read vertically) are all in GMT)
|012345678901234567890123|
-----+-----
---+
Current setting (1=good, 0=bad)
|011111111100111111110000|
Enter new settings. :
(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)
Set the upper limits of the maximum-depth histogram bins:
Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
Enter new limits (in meters):
Set the upper limits of the dive-duration histogram bins:
Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
Enter new limits (in minutes):
Set the upper limits of the time-at-depth histogram bins (0 = haul-out):
Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
Enter new limits (in meters):
SL-TDR> e
It is strongly recommended that you log the following information to a disk file so that you have a permanent copy of this setup. In PROCOMM you do this by pressing the ALT-F1 key combination. You will then be prompted for a filename, a suggested name is 00T1015.SET
After you have entered a filename, press return to continue.
SLTDR version: 3.15b
34020C140102001401002BFD530A0100

```
0001010101010101010101000001010101
010101010000000000027010000420000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
2C010000000000000000000000000000
000000000000000000000000040702004C
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F62000102037EFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFF07A123FF
6D73323030313234313936FFFFFFFFFFFF
FFFFFFFFFFFFFFFF30305431303135FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.
Unit measures depth from 0 to 490 meters with a resolution of 2 meters
Software version 3.15b. Unit number: 00T1015.
ARGOS geolocation id = 24196
Unit identifier = ms200124196. Unit started at 22:04:59 on 31/12/00
Time (GMT) is 23:13:02.24. Date (GMT) is 31 December 1900
Shallowest depth to be considered a "dive" = 4 meters
Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
Local time [0-23 hours] corresponding to 00h UT (GMT): 12
Transmission intervals (at-sea / on-land) = 00:42.00 / 01:27.00
SLTDR will use on-land interval after 10 consecutive dry transmissions
SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends after SLTDR is "wet" for 2 successive at-sea transmission intervals
Transmissions will be duty cycled with 1 day on and 0 days off
Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
STATUS will be transmitted every 20 messages.
Blocks of Time-Lines will be transmitted every 48 messages.
Hours when SLTDR transmits: 01-09,12-19
Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,

* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive
histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT ID 24197; Seal ID RY18

Satellite-linked Data Recorder with Telonics ST-16 Argos Transmitter.
 Software version 3.15b. Unit number: 00T1016.
 ARGOS geolocation id = 24197
 Unit identifier = ms200124197. Unit started at 22:10:44 on 31/12/00
 Time (GMT) is 23:10:00.56. Date (GMT) is 31 December 1900
 Shallowest depth to be considered a "dive" = 4 meters
 Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters
 SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters
 Local time [0-23 hours] corresponding to 00h UT (GMT): 12
 Transmission intervals (at-sea / on-land) = 00:42.50 / 01:27.50
 SLTDR will use on-land interval after 10 consecutive dry transmissions
 SLTDR will suspend transmissions after 1 hours "hailed-out". "Haul-out" ends after SLTDR is "wet" for 2 successive at-sea transmission intervals
 Transmissions will be duty cycled with 1 day on and 0 days off
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
 STATUS will be transmitted every 20 messages.
 Blocks of Time-Lines will be transmitted every 48 messages.
 Hours when SLTDR transmits: 01-09,12-19
 Upper limits of maximum-depth histogram bins are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Upper limits of dive-duration histogram bins are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Upper limits of time-at-depth histogram bins are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> v
 Battery voltage under light load = 7.353 Volts.
 v
 Battery voltage under light load = 7.353 Volts.
 SL-TDR> a3
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0
 S.W. Resistance = 255, Depth (m) = 0

SL-TDR> o

Do you wish to allow any unused portion of your daily transmission allowance to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200124197

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1
 Enter new value:
 Unit will duty cycle with n [0-15] days off. n = 0
 Enter new value:
 Nominal battery capacity is 20000 transmissions.
 See User's manual for formula to determine actual battery capacity.
 Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300
 Enter new daily allowance [1-65535]:
 STATUS will be transmitted every nth [0-255] message.
 n = 20
 Enter new value:
 Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48
 Enter new value:
 Transmission hours with good satellite coverage
 |0000000000111111112222|
 (these hours (read vertically) are all in GMT)
 |012345678901234567890123|
 -----+-----
 ---+
 Current setting (1=good, 0=bad)
 |0111111110011111110000|
 Enter new settings. :
 (in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)
 Set the upper limits of the maximum-depth histogram bins:
 Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters
 Enter new limits (in meters):
 Set the upper limits of the dive-duration histogram bins:
 Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes
 Enter new limits (in minutes):
 Set the upper limits of the time-at-depth histogram bins (0 = haul-out):
 Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters
 Enter new limits (in meters):
 SL-TDR> e
 It is strongly recommended that you log the following information to a disk
 file so that you have a permanent copy of this setup. In PROCOMM you do this
 by pressing the ALT-F1 key combination. You will then be prompted for a
 filename, a suggested name is 00T1016.SET
 After you have entered a filename, press return to continue.
 SLTDR version: 3.15b
 8C020C140102001401002BFD520A0100

```
0001010101010101010101000001010101
01010101000000005027010050420000
01FFFFFFFFFFFFFFFF000A0200000A0200
000A0200007E21FE0000010000000100
00100A05010001000100020000000000
2C010000000000000000000000000000
000000000000000000000000407020059
0A141E28323C46505A647DAFE1FF000E
020406080A0C0E101214191E28FF000E
000A141E28323C46505A647DAFFF000E
30030F620001020383FFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
FFFFFFFFFFFFFFFFFFFFFFFFFFFF07A170FF
6D73323030313234313937FFFFFFFFFF
FFFFFFFFFFFFFFFF30305431303136FF
```

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T1016.

ARGOS geolocation id = 24197

Unit identifier = ms200124197. Unit started at 22:10:44 on 31/12/00

Time (GMT) is 23:10:25.41. Date (GMT) is 31 December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:42.50 / 01:27.50

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-09, 12-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350,
* meters

**** Check these parameters carefully ****. Ready to
deploy? y

Type D to archive depth readings, H to archive
histograms: h

Unit is ready for deployment, disconnect cable and go for
it...

PTT ID 24198; Seal ID RH10

Do you wish to allow any unused portion of your daily transmission allowance to be added to the next day's allowance? [n]

Do you wish to be able to set the daily transmission allowance on a month-by-month basis? [n]

Enter number (0/6/10/14) of depth histogram bins: [14]

Enter number (0/6/10/14) of duration histogram bins: [14]

Enter number (0/6/10/14) of time-at-depth histogram bins: [14]

How many histograms or timeline messages should be encoded into each transmission (1/2) [1]

Will the instrument be deployed in an area where fresh and salt water may exist in discrete layers? [n]

SL-TDR> p

User-definable identification = ms200124198

Enter new identifier (up to 15 characters):

Shallowest depth to be considered a "dive" = 4

Enter new value:

Deepest depth for accumulating surface-timelines (0=dry only) = 2

Enter new value:

Unit will try to detect surface every second when shallower than 20

Enter new value:

Unit will try to detect surface every 1/4-second when shallower than 10

Enter new value:

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Enter new value:

Change to on-land transmission interval after n [1-255] consecutive

transmissions without sea-water induced delays. n = 10

Enter new value:

After n hours of "haul-out", unit will suspend further transmissions,

(n = 0 will disable this option). n = 1

Enter new value:

"Haul-out" ends when n successive at-sea transmission

intervals elapse which

are all "wet". n = 2

Enter new value:

Unit will duty cycle with n [1-15] days on. n = 1

Enter new value:

Unit will duty cycle with n [0-15] days off. n = 0

Enter new value:

Nominal battery capacity is 20000 transmissions.

See User's manual for formula to determine actual battery capacity.

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300

Enter new daily allowance [1-65535]:

STATUS will be transmitted every nth [0-255] message.

n = 20

Enter new value:

Blocks of Time-Lines will be transmitted every nth [0-255] message. n = 48

Enter new value:

Transmission hours with good satellite coverage

|000000000111111112222|

(these hours (read vertically) are all in GMT)

|012345678901234567890123|

-----+-----

---+

Current setting (1=good, 0=bad)

|011111100000001111110000|

Enter new settings. :

(in listing the histogram bins, the symbol * indicates that there is no upper limit for this bin.)

Set the upper limits of the maximum-depth histogram bins:

Upper limits are: 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Enter new limits (in meters):

Set the upper limits of the dive-duration histogram bins:

Upper limits are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Enter new limits (in minutes):

Set the upper limits of the time-at-depth histogram bins (0 = haul-out):

Upper limits are: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

Enter new limits (in meters):

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> v

Battery voltage under light load = 7.224 Volts.

SL-TDR> vv

Battery voltage under light load = 7.224 Volts.

SL-TDR> a3

S.W. Resistance = 255, Depth (m) = 0

S.W. Resistance = 255, Depth (m) = 2

S.W. Resistance = 255, Depth (m) = 2

SL-TDR> e

It is strongly recommended that you log the following information to a disk

file so that you have a permanent copy of this setup. In

PROCOMM you do this

by pressing the ALT-F1 key combination. You will then be prompted for a

filename, a suggested name is 00T1017.SET

After you have entered a filename, press return to continue.

SLTDR version: 3.15b

26020C140102001401002AFD530A0100

00010101010101000000000000000101

01010101000000000028010000430000

01FFFFFFFFFFFF000A0200000A0200

000A0200007E21FE0000010000000100

00100A05010001000100020000000000

2C010000000000000000000000000000

0000000000000000000000004070200F2

0A141E28323C46505A647DAFE1FF000E

020406080A0C0E101214191E28FF000E

000A141E28323C46505A647DAFFF000E

30030F620001020376FFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

FFFFFFFFFFFFFFFFFFFFFFFFFFFF07A185FF

6D73323030313234313938FFFFFFFFFFFF

FFFFFFFFFFFFFFFF30305431303137FF

Quarter-Watt, Microprocessor-controlled Satellite-linked Time-Depth Recorder.

Unit measures depth from 0 to 490 meters with a resolution of 2 meters

Software version 3.15b. Unit number: 00T1017.

ARGOS geolocation id = 24198

Unit identifier = ms200124198. Unit started at 21:33:15 on 16/11/00

Time (GMT) is 21:54:52.55. Date (GMT) is 31 December 1900

Shallowest depth to be considered a "dive" = 4 meters

Deepest depth for accumulating surface-timelines (0=dry only) = 2 meters

SLTDR uses 1-sec / 1/4-sec wakeups when shallower than 20 / 10 meters

Local time [0-23 hours] corresponding to 00h UT (GMT): 12

Transmission intervals (at-sea / on-land) = 00:43.00 / 01:28.00

SLTDR will use on-land interval after 10 consecutive dry transmissions

SLTDR will suspend transmissions after 1 hours

"hailed-out". "Haul-out" ends

after SLTDR is "wet" for 2 successive at-sea

transmission intervals

Transmissions will be duty cycled with 1 day on and 0 days off

Daily allowance (1-message transmissions; unused xmits don't accumulate) = 300

STATUS will be transmitted every 20 messages.

Blocks of Time-Lines will be transmitted every 48 messages.

Hours when SLTDR transmits: 01-06,14-19

Upper limits of maximum-depth histogram bins are:

20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, 450, * meters

Upper limits of dive-duration histogram bins are:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 40, * minutes

Upper limits of time-at-depth histogram bins are:

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 350, * meters

**** Check these parameters carefully ****. Ready to deploy? y

Type D to archive depth readings, H to archive histograms: h

Unit is ready for deployment, disconnect cable and go for it...

